

GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

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Run on: January 4, 2003, 23:31:50 ; Search time 47 Seconds
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6531.563 Million cell updates/sec

Title: US-09-740-211-14\_COPY\_2040\_3040  
Perfect score: 1001

Sequence: 1 aatcagatcctcgtgctg.....ctcagccctatacctgga 1001

Scoring table: IDENTITY\_NUC

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

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Minimum DB seq Length: 0
Maximum DB seq Length: 2000000000
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Maximum DB seq length: 20000000000

Post-processing:	Minimum Match	08
	Maximum Match	1000

Listing first 45 summaries

Database : Issued\_Patents\_NA:\*

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1: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
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5: /cgn2_6/ptodata/1/ina/PCRNUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution..

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1001	100.0	4999	4	US-09-470-618-14	Sequence 14, Appl
2	1001	100.0	4999	4	US-09-364-862-14	Sequence 14, Appl
3	947.4	94.6	4629	2	US-08-484-891-7	Sequence 7, Appl
4	947.4	94.6	4670	3	US-08-717-294-41	Sequence 41, Appl
5	947.4	94.6	9354	1	US-08-663-8398-2	Sequence 2, Appl
6	919	91.8	11933	4	US-09-470-618-13	Sequence 13, Appl
7	919	91.8	11933	4	US-09-364-862-13	Sequence 13, Appl
8	723.2	72.2	4404	4	US-09-573-556-37	Sequence 37, Appl
9	688.4	68.8	4334	2	US-08-670-707A-38	Sequence 38, Appl
10	688.4	68.8	4334	4	US-09-037-601-38	Sequence 38, Appl
11	688.4	68.8	4334	4	US-09-315-179-38	Sequence 38, Appl
12	671	67.0	6999	1	US-08-276-594A-1	Sequence 1, Appl
13	671	67.0	7056	1	US-08-121-202-1	Sequence 1, Appl
14	671	67.0	8241	6	5171844-1	Patent No. 5171844
15	671	67.0	8967	1	US-08-366-851A-1	Sequence 1, Appl
16	671	67.0	9009	1	US-07-864-004B-3	Sequence 3, Appl
17	671	67.0	9009	1	US-08-231-937A-3	Sequence 3, Appl
18	671	67.0	9009	1	US-08-212-133A-1	Sequence 1, Appl
19	671	67.0	9009	1	US-08-474-503-1	Sequence 1, Appl
20	671	67.0	9009	2	US-08-670-707A-1	Sequence 1, Appl
21	671	67.0	9009	4	US-09-037-601-1	Sequence 1, Appl
22	671	67.0	9009	4	US-09-315-179-1	Sequence 1, Appl
23	671	67.0	9009	4	US-09-523-656-1	Sequence 1, Appl
24	671	67.0	9009	5	PCT-US93-03275-3	Sequence 3, Appl
25	671	67.0	9009	5	PCT-US94-13200-1	Sequence 1, Appl
26	575	57.4	7032	4	US-09-374-867-1	Sequence 1, Appl
27	566	56.5	5035	2	US-08-882-083-1	Sequence 1, Appl

28	566	56.5	5035	2	US-08-558-107-1	Sequence 1, Appl
29	566	56.5	5035	2	US-09-243-539-1	Sequence 1, Appl
30	560.6	56.0	4451	3	US-08-711-294-42	Sequence 42, Appl
31	554.4	55.4	6402	2	US-08-670-707A-36	Sequence 36, Appl
32	554.4	55.4	6402	4	US-09-032-601-36	Sequence 36, Appl
33	554.4	55.4	6402	4	US-09-312-119-36	Sequence 36, Appl
34	55.4	55.4	6402	4	US-09-523-656-29	Sequence 29, Appl
35	551	55.0	1130	1	US-07-864-004B-1	Sequence 1, Appl
36	551	55.0	1130	1	US-08-251-937A-1	Sequence 1, Appl
37	551	55.0	1130	1	US-08-474-503-3	Sequence 3, Appl
38	551	55.0	1130	1	US-08-212-133A-5	Sequence 5, Appl
39	551	55.0	1130	2	US-08-670-707A-3	Sequence 3, Appl
40	551	55.0	1130	4	US-09-037-601-3	Sequence 3, Appl
41	551	55.0	1130	4	US-09-315-179-3	Sequence 3, Appl
42	551	55.0	1130	4	US-09-523-656-3	Sequence 3, Appl
43	551	55.0	1130	5	PCR-US93-03275-1	Sequence 1, Appl
44	551	55.0	1130	5	PCR-US94-13200-5	Sequence 3, Appl
45	541.4	54.1	7493	1	US-08-212-133A-7	Sequence 7, Appl

## ALIGNMENTS

## RESULT 1

; Sequence 14, Application US/09470618

; GENERAL INFORMATION:

APPLICANT: Colosi, Peter C.

1 TITLE OF INVENTION: by Target Cells

CURRENT APPLICATION NUMBER: US/09/4

EARLIER APPLICATION NUMBER: 09/364,862

EARLIER APPLICATION NUMBER: 60/125,974

EARLIER APPLICATION NUMBER: 60/104,994

NUMBER OF SEQ ID NOS: 15

SEQ ID NO 14

TYPE: DNA

ORGANISM: *Alcibiella* sequence

OTHER INFORMATION:	DESCRIPTION OF ARTIFICIAL SEQUENCE:	SYNTHETIC
US-09-470-618-14		

Query Match	100.0%	Score 1001:	DB 4:	Length 4999:
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Matches 1001: Conservative 0: Indels 0: Gaps 0:
                best local similarity 100.0%; Pident. NO. 0;

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ov 1 AATCAGATCCTGGTGCCCTGACCCGCTATTACTCTAGTTTGGTTAATATGGAGAGAGATC 60

db 2040 AATCAGATCCTCGTGCCCTGACCCGCTATTACTCTAGTTTCGTTAATATGAGAGAGATC 2099

61 TAGCTTCAGGACTCATTTGGCCCTCTCTCATCTGCTACAAGAATCTGTAGATCAAGAG 120

Db 2100 TAGCTTCAGGACTCATTTGGCCCTCTCTCATCTGCTACCAAGAATCTGTAGATCAAGAG 2159

121 GAAACCGAGTAAATGTCAGACCAAGAGGAAATGTCATTCCTGCTTTCCTAAATTGAGTGGAGACCG 180

Db 2160 GAACAGATATGTCAGACAGAGGATGTCATCTGTTTCTGTATTGATGAGACC 2219

**Ov**      **181 GAGGCTGGTACCTAACCGAGCATTATCACCCCTTTTCCTCATCAACAACC  
              240**

2220 GAAAGTGTACTCAGCAGCAATATACAAAGCTTCTCCCAATCCACCTGCACTCAGCC 3278

[illegible]

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[illegible]

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RESULT 2
US-09-364-862-14
: Sequence 14, Application US/09364862
: Patent No. 6221349
: GENERAL INFORMATION:
: APPLICANT: Couto, Linda B.
: APPLICANT: Colosi, Peter C.
: TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII
: TITLE OF INVENTION: BY TARGET
: TITLE OF INVENTION: CELLS
: FILE REFERENCE: AVIGEN-03743
: CURRENT APPLICATION NUMBER: US/09/364,862
: CURRENT FILING DATE: 1999-07-30
: EARLIER APPLICATION NUMBER: 60/125,974
: EARLIER FILING DATE: 1998-03-24
: EARLIER APPLICATION NUMBER: 60/104,994
: EARLIER FILING DATE: 1998-10-20
: NUMBER OF SEQ ID NOS: 14
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO. 14
: LENGTH: 4999
: TYPE: DNA

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:	ORGANISM	Artificial Sequence	
:	FEATURE:		
:	OTHER INFORMATION:	Description of Artificial Sequence:	Synthetic
:		US-09-364-862-14	
	Query Match	100.0%;	Score 1001;
	Best Local Similarity	100.0%;	Pred. No. 0;
	Matches 1001;	Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	1	AATCAGATCCTCGGTCCTCGACGACCCGCTATTTACTCTAGTTTCGTTAAATATGAGAGAGATTC	60
DB	2040	AATTCAGATCCTCGGTCCTCGACGACCCGCTATTTACTCTAGTTTCGTTAAATATGAGAGAGATTC	2099
OY	61	TAGCTTAGAGACATATGGCCCTCTCTCATCTGCTATCAAGAAATCTGTAGATCAAGAAG	120
DB	2100	TAGCTTAGAGACATATGGCCCTCTCTCATCTGCTATCAAGAAATCTGTAGATCAAGAAG	2159
OY	121	GAAAACGATTAATGTGAGACAAGAGAAATGTCACTCTGTTTCTGTATTTTGATGAGAAAC	180
DB	2160	GAAAACGATTAATGTGAGACAAGAGAAATGTCACTCTGTTTCTGTATTTTGATGAGAAAC	2219
OY	181	GAACTGCTACCTCAACAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGAGTCCAG	240
DB	2220	GAACTGCTACCTCAACAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGAGTCCAG	2279
OY	241	TTGAGATCCAGAGTTTCCAAAGCCTCCAAACATCATGACAGCATCAAGGCTATGTTTGG	300
DB	2280	TTGAGATCCAGAGTTTCCAAAGCCTCCAAACATCATGACAGCATCAAGGCTATGTTTGG	2339
OY	301	ATACTTTGCAGTTTGCAGTTTGTTTGCATGAGTGGCATACTGCTACATTTCTAAGCATTTG	360
DB	2340	ATACTTTGCAGTTTGCAGTTTGTTTGCATGAGTGGCATACTGCTACATTTCTAAGCATTTG	2399
OY	361	GAGCAGCAGATGACTCTCTTCTGTCTCTCTCTCTGATATACCTTTCAACACAAAATGG	420
DB	2400	GAGCAGCAGATGACTCTCTTCTGTCTCTCTCTCTGATATACCTTTCAACACAAAATGG	2459
OY	421	TCTATGAGACACACACCCTATTCCATTCACAGAGAAACGTCTCATGTCTGATGG	480
DB	2460	TCTATGAGACACACACCCTATTCCATTCACAGAGAAACGTCTCATGTCTGATGG	2519
OY	481	AAAACCCAGGTCTATGATTTCTGGGGTGGCACAACTCCAGACTTTCCGGAACAGAGCATGA	540
DB	2520	AAAACCCAGGTCTATGATTTCTGGGGTGGCACAACTCCAGACTTTCCGGAACAGAGCATGA	2579
OY	541	CCGCTTACGAGAGTTTCTAGTTGTGACAACAAACATCGATTTATTACGAGACAGTT	600
DB	2580	CCGCTTACGAGAGTTTCTAGTTGTGACAACAAACATCGATTTATTACGAGACAGTT	2639
OY	601	ATGAGATATTTTCAGCATACTTCTGTGAGTAAACAAATGCCATTTGAACCAAGAGACTTCT	660
DB	2640	ATGAGATATTTTCAGCATACTTCTGTGAGTAAACAAATGCCATTTGAACCAAGAGACTTCT	2699
OY	661	CCCGAATCCACAGTCTTGAAGCGCATCAACGGGAATATATCTGATATCTTCAGT	720
DB	2700	CCCGAATCCACAGTCTTGAAGCGCATCAACGGGAATATATCTGATATCTTCAGT	2759
OY	721	CAGATCAAGAGAAATTTGACTATGATGATACCATTTTCAGTTGAATGAAGAGAGATTT	780
DB	2760	CAGATCAAGAGAAATTTGACTATGATGATACCATTTTCAGTTGAATGAAGAGAGATTT	2819
OY	781	TTGACATTTATGATGAGATGAAAATCAGAGCCCGCCGACGCTTTCAAAAGAAAAACAGAC	840
DB	2820	TTGACATTTATGATGAGATGAAAATCAGAGCCCGCCGACGCTTTCAAAAGAAAAACAGAC	2879
OY	841	ACTATTTTATTTGCTGCAGTGGAGAGAGGCTCTGGGATTTATGGGATGATGATCTCCCCATATG	900
DB	2880	ACTATTTTATTTGCTGCAGTGGAGAGAGGCTCTGGGATTTATGGGATGATGATCTCCCCATATG	2939
OY	901	TTTCAAAACAAACAGGGCTCAGAGATGGCAGTGCCTTCAGTTCAACAAAAGTTGTTTCCAGG	960
DB	2940	TTTCAAAACAAACAGGGCTCAGAGATGGCAGTGCCTTCAGTTCAACAAAAGTTGTTTCCAGG	2999



STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/717,294  
FILING DATE: 20-SEP-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Elbing, Karen L.  
REGISTRATION NUMBER: 35,238  
REFERENCE/DOCKET NUMBER: 00786/345001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4670 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-08-717-294-41

Query Match 94.6%; Score 947.4; DB 3; Length 4670;  
Best Local Similarity 95.9%; Pred. No. 1.4e-300;  
Matches 1000; Conservative 0; Mismatches 1; Indels 42; Gaps 1;

QY 1 AATCAGATCCTCGGCTGACCGCCGCTATTACTAGTTTCGTTAATGAGAGAGATC 60  
DB 1651 AATCAGATCCTCGGCTGACCGCCGCTATTACTAGTTTCGTTAATGAGAGAGATC 1710  
QY 61 TACCTTCAGAGCATTTGGCCCTCTCTCTATCTGCTACAAAGATGTGATGCAAGAG 120  
DB 1711 TACCTTCAGAGCATTTGGCCCTCTCTCTATCTGCTACAAAGATGTGATGCAAGAG 1770  
QY 121 GAACACAGATTAATGACAGCAAGAGATGTATCCTGTTTCTGATTTGATGGAAGC 180  
DB 1771 GAACACAGATTAATGACAGCAAGAGATGTATCCTGTTTCTGATTTGATGGAAGC 1830  
QY 181 GAAGCTGTACTCTACAGAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGTGCAC 240  
DB 1831 GAAGCTGTACTCTACAGAGAAATATACAAAGCTTTCTCCCAATCCAGCTGAGTGCAC 1890  
QY 241 TTGAGATCCAGAGTTCACAGCCCTCAACATATGACACAGCATCAATGCGTATGTTTTG 300  
DB 1891 TTGAGATCCAGAGTTCACAGCCCTCAACATATGACACAGCATCAATGCGTATGTTTTG 1950  
QY 301 ATAGTTGAGTTGACAGTTGTTGTCAGAGTGCATACGATGATCAATGCAAGATG 360  
DB 1951 ATAGTTGAGTTGACAGTTGTTGTCAGAGTGCATACGATGATCAATGCAAGATG 2010  
QY 361 GAGCAGACTGACTCTTCTTCTCTCTCTCTCTCTGATATACCTTCAAAACAAATG 420  
DB 2011 GAGCAGACTGACTCTTCTTCTCTCTCTCTCTCTGATATACCTTCAAAACAAATG 2070  
QY 421 TCTATGAAGACACTACACCTATTCCTCCATTTCTCAGAGAAACTGTCTCATGTGATG 480  
DB 2071 TCTATGAAGACACTACACCTATTCCTCCATTTCTCAGAGAAACTGTCTCATGTGATG 2130  
QY 481 AAAACCCAGGTCTATGATTTGGGGTGCACAACTCAAGCTTGGGAACAGAGCATGA 540  
DB 2131 AAAACCCAGGTCTATGATTTGGGGTGCACAACTCAAGCTTGGGAACAGAGCATGA 2190

QY 541 CCGCTTACTGAAGGTTTCTAGTTGTGACAAAGACACTGTGATTAATACGAGACAGTT 600  
DB 2191 CCGCTTACTGAAGGTTTCTAGTTGTGACAAAGACACTGTGATTAATACGAGACAGTT 2250  
QY 601 ATGAAGATATTTTCAGCATACTTGTGAGTAAATAACATGCCATTTGAACAGAACTTCT 660  
DB 2251 ATGAAGATATTTTCAGCATACTTGTGAGTAAATAACATGCCATTTGAACAGAACTTCT 2310  
QY 661 CCCAGAAAT-----CCAGCACTCT 678  
DB 2311 CCCAGAAATTCAGACACCCCTAGCCTAGGCAAAAGCAATTAATCCACCCCACTCT 2370  
QY 679 TGAAGGCCATCAACGCGAAATTAACCTGCTACTCTTCACTAGATCAAGAGAAATTTG 738  
DB 2371 TGAAGGCCATCAACGCGAAATTAACCTGCTACTCTTCACTAGATCAAGAGAAATTTG 2430  
QY 739 ACTATGATATACCATATACAGTTGAAATGAAGAAGAAATTTTACATTTATGATGAGG 798  
DB 2431 ACTATGATATACCATATACAGTTGAAATGAAGAAGAAATTTTACATTTATGATGAGG 2490  
QY 799 ATGAATAATCAGAGCCCCCGCAGCTTTCAAAAGAAACGACACTATTTATTCCTCAG 858  
DB 2491 ATGAATAATCAGAGCCCCCGCAGCTTTCAAAAGAAACGACACTATTTATTCCTCAG 2550  
QY 859 TGGAGAGGCTCTGGGATTTATGAGATGAGTACCTCCCAATGTTCTAAGAAACAGGCTC 918  
DB 2551 TGGAGAGGCTCTGGGATTTATGAGATGAGTACCTCCCAATGTTCTAAGAAACAGGCTC 2610  
QY 919 AGATGGCAGTGTCCCTCCTAGTTCAAGAAAGTTTTCACAGAAATTTACTGATGCTCT 978  
DB 2611 AGATGGCAGTGTCCCTCCTAGTTCAAGAAAGTTTTCACAGAAATTTACTGATGCTCT 2670  
QY 979 TTACTCAGCCCTTATACCGTGA 1001  
DB 2671 TTACTCAGCCCTTATACCGTGA 2693

RESULT 5  
US-08-683-839B-2  
Sequence 2, Application US/08683839B  
Patent No. 574326  
GENERAL INFORMATION:  
APPLICANT: ILL, Charles . R. et al.  
TITLE OF INVENTION: Use of Viral Cis-Acting Post-Transcriptional  
TITLE OF INVENTION: Regulatory Sequences To Increase Expression of  
TITLE OF INVENTION: Intronsless Genes Containing Near-Consensus Splice Sites  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/683,839B  
FILING DATE: 11-MARCH-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Remillard, Jane E.  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: TTI-138  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400





OY	361	GAGCAGACGACTACTCTTCTGTCTTCCTTGCGATTAACCTTCAACAACAATAATGG	420
Db	2411	GAGCACAGACTACTCTTCTGTCTTCCTTGCGATTAACCTTCAACAACAATAATGG	2470
OY	421	TCTATTGAAGACACTCAACCCATTTCCTCAGGAAACCTGTCTTCATGTGCATGG	480
Db	2471	TCTATTGAAGACACTCAACCCATTTCCTCAGGAAACCTGTCTTCATGTGCATGG	2530
OY	481	AAAACCACGGTTATGAGATTCGGGGTGGCCACACTCAGACTTTCGGAACGAGGCATGA	540
Db	2531	AAAACCACGGTTATGAGATTCGGGGTGGCCACACTCAGACTTTCGGAACGAGGCATGA	2590
OY	541	CCGCCCTACTGAAGGTTTTCTAAGTTGTGACAAGAACACTGCTGATTTATTACGAGACAGTT	600
Db	2591	CCGCCCTACTGAAGGTTTTCTAAGTTGTGACAAGAACACTGCTGATTTATTACGAGACAGTT	2650
OY	601	ATGAAGATATTTCACCATACTTGCCTGAGTAAAAAACATGCCATTGACCAAGAAGCTTCT	660
Db	2651	ATGAAGATATTTCACCATACTTGCCTGAGTAAAAAACATGCCATTGACCAAGAAGCTT --	2708
OY	661	CCCACAATCCACCACTTTGAAAGCCCATCAACGGGAATTAAGTCGACTACTCTTCAGT	720
Db	2709	-----CGAATTAAGTCGACTACTCTTCAGT	2734
OY	721	CAGATCAAGAGAAATTCATATGATGATATACCATATCAGTTGAATGAAGAAGAAATTT	780
Db	2735	CAGATCAAGAGAAATTCATATGATGATATACCATATCAGTTGAATGAAGAAGAAATTT	2794
OY	781	TTGACATTTTATGATGAGATGAATAATCAGACCCCCGACAGCTTTCAAAGAAAAACACGAC	840
Db	2795	TTGACATTTTATGATGAGATGAATAATCAGACCCCCGACAGCTTTCAAAGAAAAACACGAC	2854
OY	841	ACTATTTTATGCTGCACTGAGAGAGGCTCTGGGATTTATGGATGATAGTCCCCACATG	900
Db	2855	ACTATTTTATGCTGCACTGAGAGAGGCTCTGGGATTTATGGATGATAGTCCCCACATG	2914
OY	901	TTCTTAGAAACAGGCTCAGAGTGGCAGCTGTCCTCAGTTCAAGAAAGTTGTTTCCAG	960
Db	2915	TTCTTAGAAACAGGCTCAGAGTGGCAGCTGTCCTCAGTTCAAGAAAGTTGTTTCCAG	2974
OY	961	AATTACTGATGGCTCCTTTACTCAGCCCTATACCGTGA	1001
Db	2975	AATTACTGATGGCTCCTTTACTCAGCCCTATACCGTGA	3015
 RESULT 7 US-09-364-862-13 ; Sequence 13, Application US/09364862 ; Patent No. 6221349 GENERAL INFORMATION: APPLICANT: Couto, Linda B. TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII TITLE OF INVENTION: BY TARGET FILE REFERENCE: AVIGEN-03743 CURRENT APPLICATION NUMBER: US/09/364,862 CURRENT FILING DATE: 1999-07-30 EARLIER APPLICATION NUMBER: 60/125,974 EARLIER FILING DATE: 1999-03-24 EARLIER APPLICATION NUMBER: 60/104,994 EARLIER FILING DATE: 1998-10-20 NUMBER OF SEQ ID NOS: 14 SOFTWARE: Patentin Ver. 2.0 SEQ ID NO 13 LENGTH: 11933 TYPE: DNA ORGANISM: Artificial Sequence FEATURE: OTHER INFORMATION: Description of Artificial Sequence: synthetic US-09-364-862-13			

Best Local Similarity 96.4%; Pred. No. 5.2e-291;  
Matches 965; Conservative 0; Mismatches 0; Indels 36; Gaps 1.

Matches 965; Conservative 0; Mismatches 0; Indels 36; Gaps 1;

1;

QY	1	AATTCAGATCTCGGCGCTGACCGCGATTACTGTTAGTTCGTTAATATGAGAGACATC	60
Db	2051	AATTCAGATCTCGGCGCTGACCGCGATTACTGTTAGTTCGTTAATATGAGAGACATC	2110
QY	61	TAGCTTCAGACATCATTTGGCCCTCTCTCATCTGCTACAAAGATCTGATATCAAAG	120
Db	2111	TAGCTTCAGACATCATTTGGCCCTCTCTCATCTGCTACAAAGATCTGATATCAAAG	2170
QY	121	GAACACAGATATATGACAGACAAGAGGAATGATACCTGGTTTCTGATTTGATGTAAGC	180
Db	2171	GAACACAGATATATGACAGACAAGAGGAATGATACCTGGTTTCTGATTTGATGTAAGC	2230
QY	181	GAAGCTGGTACCTCAGACAGAAATATACAGCGCTTTCTCCCAATCAGCTGAGTGCAGC	240
Db	2231	GAAGCTGGTACCTCAGACAGAAATATACAGCGCTTTCTCCCAATCAGCTGAGTGCAGC	2290
QY	241	TTGAGAGATCCAGAGTCCAGAGCTCCACATCATATGCACAGCATCAATGAGTATGTTTTG	300
Db	2291	TTGAGAGATCCAGAGTCCAGAGCTCCACATCATATGCACAGCATCAATGAGTATGTTTTG	2350
QY	301	ATAGTTTCAGTGTGACAGTTTGTTGGATGAGGTGSCATACATGATATCTTAACCATG	360
Db	2351	ATAGTTTCAGTGTGACAGTTTGTTGGATGAGGTGSCATACATGATATCTTAACCATG	2410
QY	361	GAGCAGACACTGACTCTCTTCTGTCTTCTTCTTCTGATATACCTTCAACACAAATAGG	420
Db	2411	GAGCAGACACTGACTCTCTTCTGTCTTCTTCTTCTGATATACCTTCAACACAAATAGG	2470
QY	421	TCTATGAAGACACACTACCCCTATTCCTCATCTTCAGAGAAACTGTCTTATGTCGATG	480
Db	2471	TCTATGAAGACACACTACCCCTATTCCTCATCTTCAGAGAAACTGTCTTATGTCGATG	2530
QY	481	AAAACCCAGGTCCTATGGAATTCGGGGGCCACAACTCAGACTTGGGAAACAGAGCATGA	540
Db	2531	AAAACCCAGGTCCTATGGAATTCGGGGGCCACAACTCAGACTTGGGAAACAGAGCATGA	2590
QY	541	CCGCCTTACTGAAGGTTTCTAGTTGTGACAAAGAACTGTTGATTTATACGAGCACTT	600
Db	2591	CCGCCTTACTGAAGGTTTCTAGTTGTGACAAAGAACTGTTGATTTATACGAGCACTT	2650
QY	601	ATGAAGATATTCGACATCTACTGCTAGTATAAACAATGCCATTGAACCAAGAACTTCT	660
Db	2651	ATGAAGATATTCGACATCTACTGCTAGTATAAACAATGCCATTGAACCAAGAACTTCT	2708
QY	661	CCCAAGATCCACAGTCTTGAAMACGCCATCAACGCCAAATTACTGCTACTGCTTCAGT	720
Db	2709	-----CGAATTACTGCTACTGCTTCAGT	2734
QY	721	CAGATCAAGAGAAATTGACTATGATGATACCATATCACTTGAATGAAGAAGAACATT	780
Db	2735	CAGATCAAGAGAAATTGACTATGATGATACCATATCACTTGAATGAAGAAGAACATT	2794
QY	781	TTGACATTTATGATGAGATGAGAAATCAGAGCCCCCGACGCTTCAAAAAGAAACACGAC	840
Db	2795	TTGACATTTATGATGAGATGAGAAATCAGAGCCCCCGACGCTTCAAAAAGAAACACGAC	2854
QY	841	ACTATTTTATTCGTCAGTGTGAGAGAGGCTCTGGGATTATGAGATGATAGTGCATCCACATG	900
Db	2855	ACTATTTTATTCGTCAGTGTGAGAGAGGCTCTGGGATTATGAGATGATAGTGCATCCACATG	2914
QY	901	TTTCTAAGAAACAGGCGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAATGTTTTCCAGG	960
Db	2915	TTTCTAAGAAACAGGCGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAATGTTTTCCAGG	2974
QY	961	AATTTACGATGGCTCCTTACTTACACCCCTTATACCGTGA 1001	
Db	2975	AATTTACGATGGCTCCTTACTTACACCCCTTATACCGTGA 3015	

## RESULT 8



; TOPOLOGY: not relevant  
 ; MOLECULE TYPE: CDNA to mRNA  
 ; HYPOTHETICAL: NO  
 ; ORIGINAL SOURCE:  
 ; INDIVIDUAL ISOLATE: Factor VIII lacking B domain  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: 3..4334  
 ; US-08-670-707A-38

Query Match 68.8%; Score 688.4; DB 2; Length 4334;  
 Best Local Similarity 82.2%; Pred. No. 1.4e-215;  
 Matches 822; Conservative 0; Mismatches 136; Indels 42; Gaps 1;

Oy 1 AATCAGATCTCGGCTGACCGGCTATCTAGTTTCGTTAATATGAGAGAGATC 60  
 Db 1627 AGTCGATCTCTGCTGCTTACCCGCTACTACTGAGCTCCATTAATCTAGAAAGATC 1686  
 Oy 61 TAGCTTCAGAGCTCAATGGCCCTCTCTCTCACTGCTACAAAGAAATCTAGATCAAGAG 120  
 Db 1687 TGGCTTCGGGACTCATTTGGCCCTCTCTCTCACTGCTACAAAGAAATCTAGAGCAAGAG 1746  
 Oy 121 GAACCAAGATATGTCAGACAAAGAAATGTCATCTCTGTTTGTGATTTGATGAAAC 180  
 Db 1747 GAACCAAGATATGTCAGACAAAGAAATGTCATCTCTGTTTGTGATTTGATGAAAC 1806  
 Oy 181 GAAGCTGTACTCTACAGAAATATACAAAGCTTCTCCCAATCCAGCTGGAGTGCAGC 240  
 Db 1807 AAGCTGTACTCTCTGAGAAATATACAAAGCTTCTCCCAATCCAGCTGGAGTGCAGC 1866  
 Oy 241 TTGAGATCCAGATTCACAGCTCCACATCATGTCACAGCATCAATGCTATGTTTGG 300  
 Db 1867 CCCAGATCCAGATTCACAGCTCCACATCATGTCACAGCATCAATGCTATGTTTGG 1926  
 Oy 301 ATAGTTTGAGTGTGATTTGTTTGCATGAGGTGCTATGCTATGCTATGCTATGCTATG 360  
 Db 1927 ATAGTTTGAGTGTGATTTGTTTGCATGAGGTGCTATGCTATGCTATGCTATGCTATG 1986  
 Oy 361 GAGCAGAGACTGACT 420  
 Db 1987 GAGCAGAGAGGACT 2046  
 Oy 421 TCTATGAAGACACACTCACCCTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 480  
 Db 2047 TCTATGAAGACACACTCACCCTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2106  
 Oy 481 AAACCCAGGCTATGATTTCTGGGTGCAACACTCAGACTTGGGAAACAGAGGATGA 540  
 Db 2107 AAACCCAGGCTATGATTTCTGGGTGCAACACTCAGACTTGGGAAACAGAGGATGA 2166  
 Oy 541 CCGCCCTTACTGAAGGTTTCTAGTTGTGACAAAGAACTGGTATTTACGAGAGCACTT 600  
 Db 2167 CAGCCTTACTGAAGGTTTCTAGTTGTGACAAAGAACTGGTATTTACGAGAGCACTT 2226  
 Oy 601 ATGAAGATATTCAGATATCT 660  
 Db 2227 ATGAAGATATTCAGATATCT 2279  
 Oy 661 CCCAGATCCAGCACTTGAACAGCCATCAACGCAATTAACCTGCTACTCTCTCTCTCT 720  
 Db 2280 -----GACATAAGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2304  
 Oy 721 CAGATCAAGAGAAATTTGATATGATGATATCATATCACTGATGAATGAAGAAAGATTT 780  
 Db 2305 CGAGAGAAAGAAATTTGATATGATGATATCTCTCACTGAAGAAAGAAAGAGATTT 2364  
 Oy 781 TTGACATTTATGATGAGATGAAATACAGAGCCCGCGCTTTCAAAAAGAAACAGCAGC 840  
 Db 2365 TTGACATTTATGATGAGATGAAATACAGAGCCCGCGCTTTCAAAAAGAAACAGCAGC 2424  
 Oy 841 ACTATTTTATGCTGAGAGAGAGGCTGAGATATGAGATGATGAGTCCCGCAGATG 900  
 Db 2425 ACTATTTTATGCTGAGAGAGAGGCTGAGATATGAGATGATGAGTCCCGCAGATG 2484

Oy 901 TTCTAAGAAACAGGCTCAGAGATGCGAGTGCCTCACTTCAAGAAAGTGTTCAGG 960  
 Db 2485 CCTTAAGAAACAGGCTCAGAGATGCGAGTGCCTCACTTCAAGAAAGTGTTCAGG 2544  
 Oy 961 AATTCTAGTATGCT 1000  
 Db 2545 AATTCTAGTATGCT 2584

## RESULT 10

US-09-037-601-38  
 ; Sequence 38, Application US/09037601  
 ; Patent No. 6180371

## GENERAL INFORMATION:

; APPLICANT: Lollat, John S.  
 ; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
 ; NUMBER OF SEQUENCES: 40  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
 ; STREET: 5370 Manhattan Circle Suite 201  
 ; CITY: Boulder  
 ; STATE: Colorado  
 ; COUNTRY: USA  
 ; ZIP: 80303

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentln Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/037,601  
 ; FILING DATE: 26-JUN-1996

## CLASSIFICATION:

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: WO PCT/US94/13200  
 ; FILING DATE: 15-NOV-1994

## PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/212,133  
 ; FILING DATE: 11-MAR-1994

## PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/864,004  
 ; FILING DATE: 07-APR-1992

## ATTORNEY/AGENT INFORMATION:

; NAME: Feiber, Donna M.  
 ; REGISTRATION NUMBER: 33,878

## REFERENCE/DOCKET NUMBER:

; TELEPHONE: 303/499-8080  
 ; TELEFAX: 303/499-8089

## INFORMATION FOR SEQ ID NO:

; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 4334 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: double

## MOLECULE TYPE:

; MOLECULE TYPE: CDNA to mRNA  
 ; HYPOTHETICAL: NO

## ORIGINAL SOURCE:

; INDIVIDUAL ISOLATE: Factor VIII lacking B domain

## FEATURE:

; NAME/KEY: CDS  
 ; LOCATION: 3..4334

## US-09-037-601-38

; LOCATION: 3..4334

## Query Match

Best Local Similarity 82.2%; Score 688.4; DB 4; Length 4334;  
 Matches 822; Conservative 0; Mismatches 136; Indels 42; Gaps 1;

Oy 1 AATCAGATCTCGGCTGACCGGCTATCTAGTTTCGTTAATATGAGAGAGATC 60  
 Db 1627 AGTCGATCTCTGCTGCTTACCCGCTACTACTGAGCTCCATTAATCTAGAAAGATC 1686

61 TAGCTTGGAGCTGATTTGGCCCTGCTCATCTGCTACAAAGAACTGTAGATCAAGAG 120  
 1687 TGGCTTGGAGCTGATTTGGCCCTGCTCATCTGCTACAAAGAACTGTAGATCAAGAG 1746  
 121 GAAACCAATATGATGTCACAGCAAGAGAAATGTCATCTGCTTTCTGTAATTTGAGAAC 180  
 1747 GAAACCAATATGATGTCACAGCAAGAGAAATGTCATCTGCTTTCTGTAATTTGAGAAC 1806  
 181 GAGCTGTGATCTTACAGAGAAATATACAGCTTTCTTCCCAATTCAGCTGGATGACAG 240  
 1807 AAAGCTGTGATCTTACAGAGAAATATACAGCTTTCTTCCCAATTCAGCTGGATGACAG 1866  
 241 TTGAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 300  
 1867 CCCAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 1926  
 301 ATAGTTGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 360  
 1927 ATAGTTGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 1986  
 361 GAGCAGAGCTGATCTTCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTT 420  
 1987 GAGCAGAGCTGATCTTCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTT 2046  
 421 TGTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCTG 480  
 2047 TGTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCTG 2106  
 481 AAAACCAAGCTGATCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 540  
 2107 AAAACCAAGCTGATCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 2166  
 541 CCGCTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCT 600  
 2167 CCGCTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCT 2226  
 601 ATGAGATATTTTACAGATCTGCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 660  
 2227 ATGAGATATTTTACAGATCTGCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 2279  
 661 CCCAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 720  
 2280 CCCAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 2304  
 721 CAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAG 780  
 2305 CAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAG 2364  
 781 TTGAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 840  
 2365 TTGAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 2424  
 841 ACTATTTTATTTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTG 900  
 2425 ACTATTTTATTTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTG 2484  
 901 TTCTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCT 960  
 2485 TTCTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCT 2544  
 961 AATTTCATGATGCTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 1000  
 2545 AATTTCATGATGCTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 2584

RESULT 11  
 US-09-315-179-38  
 : Sequence 38, Application US/09315179  
 : Patent No. 6376463  
 : GENERAL INFORMATION:  
 : APPLICANT: Loliat, John S  
 : TITLE OF INVENTION: Modified Factor VIII  
 : FILE REFERENCE: 75-95H

: CURRENT APPLICATION NUMBER: US/09/315,179  
 : CURRENT FILING DATE: 1999-05-20  
 : EARLIER APPLICATION NUMBER: U.S. 09/037,601  
 : EARLIER FILING DATE: 1998-03-10  
 : EARLIER APPLICATION NUMBER: U.S. 08/670,707  
 : EARLIER FILING DATE: 1996-06-26  
 : EARLIER APPLICATION NUMBER: PCT/US97/11155  
 : EARLIER FILING DATE: 1997-06-26  
 : EARLIER APPLICATION NUMBER: PCT/US94/13200  
 : EARLIER FILING DATE: 1994-11-15  
 : EARLIER APPLICATION NUMBER: U.S. 08/212,133  
 : EARLIER FILING DATE: 1994-03-11  
 : EARLIER APPLICATION NUMBER: U.S. 07/864,004  
 : EARLIER FILING DATE: 1992-04-07  
 : NUMBER OF SEQ ID NOS: 40  
 : SOFTWARE: Patent Ver. 2.0  
 : SEQ ID NO 38  
 : LENGTH: 4334  
 : TYPE: DNA  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: factor VIII  
 : OTHER INFORMATION: Lacking the B domain  
 : FEATURE:  
 : NAME/KEY: CDS  
 : LOCATION: (3)..(4331)  
 : US-09-315-179-38

Query Match 68.8%; Score 688.4; DB 4; Length 4334;  
 Best Local Similarity 82.2%; Pred. No. 1,4e-215;  
 Matches 82; Conservative 0; Mismatches 136; Indels 42; Gaps 1;

1 AATGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 60  
 1627 AGTCGATTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1686  
 61 TAGCTTGGAGCTGATTTGGCCCTGCTCATCTGCTACAAAGAACTGTAGATCAAGAG 120  
 1687 TGGCTTGGAGCTGATTTGGCCCTGCTCATCTGCTACAAAGAACTGTAGATCAAGAG 1746  
 121 GAAACCAATATGATGTCACAGCAAGAGAAATGTCATCTGCTTTCTGTAATTTGAGAAC 180  
 1747 GAAACCAATATGATGTCACAGCAAGAGAAATGTCATCTGCTTTCTGTAATTTGAGAAC 1806  
 181 GAGCTGTGATCTTACAGAGAAATATACAGCTTTCTTCCCAATTCAGCTGGATGACAG 240  
 1807 AAAGCTGTGATCTTACAGAGAAATATACAGCTTTCTTCCCAATTCAGCTGGATGACAG 2406  
 241 TTGAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 300  
 1867 CCCAGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 1926  
 301 ATAGTTGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 360  
 1927 ATAGTTGATTCAGAGATTCAGAGCTTCCCAATTCAGAGCTTCCCAATTCAGAGCTTCCCAAT 1986  
 361 GAGCAGAGCTGATCTTCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 420  
 1987 GAGCAGAGCTGATCTTCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 2046  
 421 TGTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCTG 480  
 2047 TGTATGAAGACACACTGACCTCCATTCCTGCTGAGAGAAATGCTTCTGCTGCTGCTGCTG 2106  
 481 AAAACCAAGCTGATCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 540  
 2107 AAAACCAAGCTGATCTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCTGCTTTCT 2166  
 541 CCGCTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 600  
 2167 CCGCTTCTGATGAGTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 2226  
 601 ATGAGATATTTTACAGATCTGCTGATTTCTGATTTCTGATTTCTGATTTCTGATTTCTGAT 660

Db	2227	ATGAAGATATTCAGGCTCTGTGTGAGTGAAGAATGTCAATGAAACCCANA	2279
Qy	661	CCCAAGATCCACGAGTCTTGAAAGCCCATCACGCGAAATTAAGTGTACTGTCTTCAGT	720
Db	2280	-----GACATGAAGCCCTTCTCACTTTTCAGC	2304
Qy	721	CAGATCAAGAGAAATGACTATGATGATACATATCACTGTAATAATGAAGAAGATTT	780
Db	2305	CGAGGAAGACAAATATGGACTATGATGATATCTTTCACACTGAACGAAGAGAGAAAGTT	2364
Qy	781	TTGACATTTTATGATGAGAGATGAATAATCAGACCCCGCAGCTTTCAAAAGAAACACGAC	840
Db	2365	TTTGACATTTTCGGTGAGAGATGAATAATCAGACCCCTTCGACGCTTTCAGAAAGAAACCCAC	2424
Qy	841	ACTATTTTATTTGCTGCGAGTGGAGAGGCTCGGGATTATGAGATGAGTATGCTCCCAATG	900
Db	2425	ACTATTTTCATTTGCTGCGGCTGGACACAGCTCTGGGATTTACGGGATGAGCGAATCCCCCGG	2484
Qy	901	TTCTAAGAAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAAGAAAGTTGTTTTCAGG	960
Db	2485	CGCTAAGAAACAGGGCTCAGAAACGAGAGAGTGCTCGTTCAAGAAAGGTGCTTCGGG	2544
Qy	961	AATTTAGATGAGCTCCTTTTACTACAGCCCTTATACGCTG	1000
Db	2545	AATTTGCTGACGGCTCCTTTACCCACGCTGCTGACGGG	2584

RESULT 12

US-08-276-594A-1  
; Sequence 1, Application US/08276594A

GENERAL INFORMATION:  
APPLICANT: YONEMURA, Hiroshi  
APPLICANT: TAJIMA, Yoshihika  
APPLICANT: SUGIMARA, Keishin  
APPLICANT: MASUDA, Kenichi  
TITLE OF INVENTION: PROCESS FOR PREPARING HUMAN COAGULATION  
TITLE OF INVENTION: FACTOR VIII PROTEIN COMPLEX  
NUMBER OF SEQUENCES: 11  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/276,594A  
FILING DATE: 18-JUL-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/950,191  
FILING DATE: 24-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 243262/1991  
FILING DATE: 24-SEP-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: WEGNER, Harold C.  
REGISTRATION NUMBER: 25,258  
REFERENCE/DOCKET NUMBER: 74129/195/AOPA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEO ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 6999 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..6936
;
US-08-276-594A-1

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Query Match	67.0%;	Score 671;	DB 1;	Length 6999;
Best Local Similarity	94.6%;	Pred. No. 1e-209;		
Matches 695;	Conservative	0;	Mismatches 40;	Indels 0;

QY	1	AATGATATCCCGGTGGCTTCAACCGGCAATACCTAGTTCCGTTAATATGAGAGACATC	60
Db	1568	AATGATATCCCGGTGGCTTCAACCGGCAATACCTAGTTCCGTTAATATGAGAGACATC	1622
QY	61	TAGCTTCAGGACTCATTTGGCCCTCTCCTCATCTGCTACAAAGAAATCTAGATCAAAG	120
Db	1628	TAGCTTCAGGACTCATTTGGCCCTCTCCTCATCTGCTACAAAGAAATCTAGATCAAAG	1687
QY	121	GAACACGATATATGTACAGACAAAGAAATGTACTCTGTTTCTGTATTTGATGAACC	180
Db	1688	GAACACGATATATGTACAGACAAAGAAATGTACTCTGTTTCTGTATTTGATGAACC	1747
QY	181	GAACCTGTATCTCACAGAGAAATATCAACGCTTTTCCCAATCAGGTGGAGAGACG	240
Db	1748	GAACCTGTATCTCACAGAGAAATATCAACGCTTTTCCCAATCAGGTGGAGAGACG	1807
QY	241	TTGAGATCCAGAGTTTCCAAAGCCTCCACATCATGACACAGCATCAATGGCTATGTTTTG	300
Db	1808	TTGAGATCCAGAGTTTCCAAAGCCTCCACATCATGACACAGCATCAATGGCTATGTTTTG	1867
QY	301	ATATGTTGCAGTTGTCAAGTTTGTTCATGAGGTGGCATACGTGATCATTTCAACATTG	360
Db	1868	ATATGTTGCAGTTGTCAAGTTTGTTCATGAGGTGGCATACGTGATCATTTCAACATTG	1927
QY	361	GAGCAGACATGACTTCCCTTCTGTCTCTCTGAGATATACCTTCAACACAAATAGG	420
Db	1928	GAGCAGACATGACTTCCCTTCTGTCTCTCTGAGATATACCTTCAACACAAATAGG	1987
QY	421	TCTATGAAGACACACTCACCCATTTTCCATCTTCAGAGAAACTCTCTTCAATGCGATGG	480
Db	1988	TCTATGAAGACACACTCACCCATTTTCCATCTTCAGAGAAACTCTCTTCAATGCGATGG	2047
QY	481	AAAACCCAGGTCTATGGATTTCTGGGTGGCCACAACCTCAGACTTTTGGAAACAGGCATGA	540
Db	2048	AAAACCCAGGTCTATGGATTTCTGGGTGGCCACAACCTCAGACTTTTGGAAACAGGCATGA	2107
QY	541	CCGCGCTTACGAGGTTTCTAGTTGTGACAAGAACACGTGGTATTTATACGAGGACATTT	600
Db	2108	CCGCGCTTACGAGGTTTCTAGTTGTGACAAGAACACGTGGTATTTATACGAGGACATTT	2167
QY	601	ATGAGATATTTTCAGCATACTTGTGTGAGTAAACAAATGSCATTTGACCAAGAAAGCTTCT	660
Db	2168	ATGAGATATTTTCAGCATACTTGTGTGAGTAAACAAATGSCATTTGACCAAGAAAGCTTCT	2227
QY	661	CCCAAGATCCACCAAGTCTTGAAACGCCATCAACGCGAAATAACTCTGATCACTCTTCAGT	720
Db	2228	CCCAAGATTCMAAGCACCGGTAGCATAGGCAAAAGCAATTTATGCCACCAATATTCGAG	2287
QY	721	CAGATCAAGGAGAA 735	
Db	2288	AAATGACATAGAGA 2302	

## RESULT 13

US-08-121-202-1  
Sequence 1, Application US/08121202  
Patent No. 5563045  
GENERAL INFORMATION:  
APPLICANT: Pittman, Debra  
APPLICANT: Rehmentulla, Alnawaz  
APPLICANT: Wozney, John M.

APPLICANT: Kaufman, Randal J.  
TITLE OF INVENTION: CHIMERIC PROCOAGULANT PROTEINS  
NUMBER OF SEQUENCES: 27  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Legal Affairs, Genetics Institute, Inc.  
STREET: 87 Cambridgepark Drive  
CITY: Cambridge  
STATE: MA  
COUNTRY: USA  
ZIP: 02140  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/21,202  
FILING DATE: 14-SEP-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Meiner, M. C.  
REGISTRATION NUMBER: 31,544  
REFERENCE/DOCKET NUMBER: GI 5195A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 876-1210 X8574  
TELEFAX: (617) 876-5851  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7056 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..7053  
US-08-121-202-1

Query Match 67.0%; Score 671; DB 1; Length 7056;  
Best Local Similarity 94.6%; Pred. No. 1e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 AATCAGATCCTCGGTCCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGAGATC 60  
DB 1625 AATCAGATCCTCGGTCCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGAGATC 1684  
QY 61 TAGCTTCAGAGACTATGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 120  
DB 1685 TAGCTTCAGAGACTATGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 1744  
QY 121 GAAACAGATATATGTCAGACAGAGAGATGTCATCCTGTTTCTGTATTGATGAGAAC 180  
DB 1745 GAAACAGATATATGTCAGACAGAGAGATGTCATCCTGTTTCTGTATTGATGAGAAC 1804  
QY 181 GAAGCTGTACTCTACAGAGATATATCAAGGCTTCTCCCAATCCAGCTGGAGAGCAGC 240  
DB 1805 GAAGCTGTACTCTACAGAGATATATCAAGGCTTCTCCCAATCCAGCTGGAGAGCAGC 1864  
QY 241 TTGAGATCCAGAGTTCACAGCTCCACATCATGACACAGATCAATGCTATGTTTTG 300  
DB 1865 TTGAGATCCAGAGTTCACAGCTCCACATCATGACACAGATCAATGCTATGTTTTG 1924  
QY 301 ATAGTTTCAGAGTTCAGATTTGTTTGCATGAGGTGAGTCACTGATCTTAAGCATTTG 360  
DB 1925 ATAGTTTCAGAGTTCAGATTTGTTTGCATGAGGTGAGTCACTGATCTTAAGCATTTG 1984  
QY 361 GAGCAGAGACTGACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 420  
DB 1985 GAGCAGAGACTGACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 2044  
QY 421 TCTATGAAGACACTACACCTATTCCTCATTTCTCAGAGAGAAATGTTCTTCTATGTCATGG 480

|||||  
DB 2045 TCTATGAAGACACTACACCTATTCCTCATTTCTCAGAGAGAAATGTTCTTCTATGTCATGG 2104  
QY 481 AAAACCCAGGCTATGATTTCTGGGGTGCACAACTCAGACTTTGGAGACAGGATATGA 540  
DB 2105 AAAACCCAGGCTATGATTTCTGGGGTGCACAACTCAGACTTTGGAGACAGGATATGA 2164  
QY 541 CCCGCTTACGAGGTTTCTAGTTGTGACAAAGAACACTGCTGATTTATACGAGACAGTT 600  
DB 2165 CCCGCTTACGAGGTTTCTAGTTGTGACAAAGAACACTGCTGATTTATACGAGACAGTT 2224  
QY 601 ATGAGATATTTTCAGATACCTTGTGATGATAAAACATGCGATTTGAACCAAGAGCTTCT 660  
DB 2225 ATGAGATATTTTCAGATACCTTGTGATGATAAAACATGCGATTTGAACCAAGAGCTTCT 2284  
QY 661 CCCAGATTCACAGCTGTTGAACCCCATATACGCGCAATTAATCTGATCTTCTTCTAGT 720  
DB 2285 CCCAGATTCACAGCTGTTGAACCCCATATACGCGCAATTAATTAATGCGCACCAATTCAG 2344  
QY 721 CAGATCAAGAGGAAA 735  
DB 2345 AAAATGACATAGAGA 2359

RESULT 14  
5171844-1  
; Patent No. 5171844  
; APPLICANT: VAN OYEN, ALBERT J.J.; PANNEKOEK, HANS; VERBET,  
; MARTINUS P.; VAN LEEN, ROBERT W.  
; TITLE OF INVENTION: PROTEINS WITH FACTOR VIII ACTIVITY  
; PROCESS FOR THEIR PREPARATION USING GENETICALLY-ENGINEERED CELLS  
; AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM  
; NUMBER OF SEQUENCES: 12  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/205,226  
; FILING DATE: 10-JUN-1988  
; SEQ ID NO: 1:  
; LENGTH: 8241  
5171844-1

Query Match 67.0%; Score 671; DB 6; Length 8241;  
Best Local Similarity 94.6%; Pred. No. 1e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 1 AATCAGATCCTCGGTCCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGAGATC 60  
DB 1631 AATCAGATCCTCGGTCCTGACCCGCTATTACTAGTTCTGTTAATATGAGAGAGATC 1690  
QY 61 TAGCTTCAGAGACTATGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 120  
DB 1691 TAGCTTCAGAGACTATGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG 1750  
QY 121 GAAACAGATATATGTCAGACAGAGAGATGTCATCCTGTTTCTGTATTGATGAGAAC 180  
DB 1751 GAAACAGATATATGTCAGACAGAGAGATGTCATCCTGTTTCTGTATTGATGAGAAC 1810  
QY 181 GAAGCTGTACTCTACAGAGATATATCAAGGCTTCTCCCAATCCAGCTGGAGAGCAGC 240  
DB 1811 GAAGCTGTACTCTACAGAGATATATCAAGGCTTCTCCCAATCCAGCTGGAGAGCAGC 1870  
QY 241 TTGAGATCCAGAGTTCACAGCTCCACATCATGACACAGATCAATGCTATGTTTTG 300  
DB 1871 TTGAGATCCAGAGTTCACAGCTCCACATCATGACACAGATCAATGCTATGTTTTG 1930  
QY 301 ATAGTTTCAGAGTTCAGATTTGTTTGCATGAGGTGAGTCACTGATCTTAAGCATTTG 360  
DB 1931 ATAGTTTCAGAGTTCAGATTTGTTTGCATGAGGTGAGTCACTGATCTTAAGCATTTG 1990  
QY 361 GAGCAGAGACTGACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 420  
DB 1991 GAGCAGAGACTGACTCTCTTCTGCTTCTCTCTGATATACCTCAACACAAATATG 2050  
QY 421 TCTATGAAGACACTACACCTATTCCTCATTTCTCAGAGAGAAATGTTCTTCTATGTCATGG 480

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QY 541 CCGCTTACTGAGGTTTCTAGTTGTGACAGAACTGGTATTTATGAGAGACAGTT 600  
Db 2171 CCGCTTACTGAGGTTTCTAGTTGTGACAGAACTGGTATTTATGAGAGACAGTT 2230  
QY 601 ATGAGATATTTTACGATTTCTGCTGAGTAAACATGTCATTTGAGCAAGAGCTTCT 660  
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QY 661 CCGAGATCCACAGCTTTGAAACGCCATCAACGGAATTAATCTGCTACTCTTCACT 720  
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RESULT 15  
US-08-366-851A-1  
Sequence 1, Application US/08366851A  
Patent No. 5681746  
GENERAL INFORMATION:  
APPLICANT: Bodner, Mordechai  
APPLICANT: De Polo, Nicolas J.  
APPLICANT: Hsu, David Chi-Tang  
APPLICANT: Chang, Steven  
TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Viagene, Inc.  
STREET: 11055 Roselle Street  
CITY: San Diego  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 92121  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/366, 851A  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Chambers, Daniel M.  
REGISTRATION NUMBER: 34,561  
REFERENCE/DOCKET NUMBER: 930049, 438  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 452-1288  
TELEFAX: (619) 452-2616  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8967 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: unknown  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 110..7165  
US-08-366-851A-1

Query Match 67.0%; Score 671; DB 1; Length 8967;  
Best Local Similarity 94.6%; Pred. No. 1.2e-209;  
Matches 695; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

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Db 1794 TAGCTTCAGAGACTATTTGGCCCTCTCCATCTGCTACAAAGAAATGCTAGATCAAAG 1853  
QY 121 GAACCCAGATTAATGTCAGACAAAGAGAAATGTCATCTGTTTCTGTATTTGATGAAAC 180  
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QY 181 GAAGCTGTACTCTCAGAGAAATATACAGAGCTTTTCCCAATCCAGCTGAGATGAGC 240  
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QY 241 TTGAGGATCCAGAGTTCCAGCCCTCCAAACATCATGACAGCATCAATGCGTATGTTTG 300  
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Db 2034 ATAGTTTCAAGTTGCTAGTTGTTTGCATGAGTGCATATGCTATCTTAAGCATTTG 2093  
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Search completed: January 5, 2003, 02:12:44  
Job time : 131 secs



GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 23:31:50 ; Search time 54 Seconds  
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8017.350 Million cell updates/sec

Title: US-09-740-211-14\_COPY\_2040\_3040

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Scoring table: IDENTITY\_NUC  
Gap 10.0, Gapext 1.0

Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications NA:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1001	100.0	4999	US-10-007-968-14	Sequence 14, Appl
2	1001	100.0	4999	US-09-740-211-14	Sequence 14, Appl
3	947.4	94.6	4629	US-09-150-811-7	Sequence 14, Appl
4	947.4	94.6	7944	US-10-095-718-1	Sequence 1, Appl1
5	919	91.8	11933	US-10-007-968-13	Sequence 13, Appl
6	919	91.8	11933	US-09-740-211-13	Sequence 13, Appl
7	696.6	69.6	7914	US-10-095-718-3	Sequence 1, Appl1
8	671	67.0	9009	US-09-957-641-1	Sequence 1, Appl1
9	153.6	15.3	6909	US-09-880-107-2275	Sequence 13, Appl
10	124.4	12.4	3700	US-09-917-800A-1559	Sequence 13, Appl
11	117.4	11.7	3321	US-09-970-966-1175	Sequence 175, Appl
12	117.4	11.7	3321	US-09-825-284-175	Sequence 175, Appl
13	117.4	11.7	3321	US-09-880-107-2253	Sequence 2253, Appl
14	63	6.3	596	US-09-864-864-114	Sequence 114, Appl
15	61.8	6.2	404	US-09-778-320-132	Sequence 132, Appl
16	61.8	6.2	404	US-09-910-689-132	Sequence 132, Appl
17	58.2	5.8	404	US-10-010-742-132	Sequence 132, Appl
18	58.2	5.8	135	US-09-748-062-26	Sequence 26, Appl
19	49.4	4.9	126	US-09-748-062-16	Sequence 16, Appl

C 20	42.6	4.3	255	10	US-09-864-761-31780	Sequence 31780, A
C 21	42.6	4.3	591	10	US-09-864-761-15258	Sequence 15258, A
C 22	41.6	4.2	389	10	US-09-960-352-12959	Sequence 12959, A
C 23	38.2	3.8	597	10	US-09-764-847-129	Sequence 129, App
C 24	37.6	3.7	502	10	US-09-924-035A-407	Sequence 407, App
C 25	37.4	3.7	362	10	US-09-820-089A-19	Sequence 19, Appl
C 26	37.4	3.7	4045	10	US-09-070-927A-151	Sequence 151, App
C 27	36.4	3.6	442	10	US-09-960-352-10117	Sequence 10117, A
C 28	35.4	3.5	236	10	US-09-960-352-5174	Sequence 5174, Ap
C 29	34.6	3.5	396	10	US-09-960-352-1845	Sequence 1845, Ap
C 30	34.6	3.5	443	10	US-09-960-352-3502	Sequence 3502, Ap
C 31	34.6	3.5	1879	10	US-09-801-574-1	Sequence 1, Appl1
C 32	34.4	3.4	243	10	US-09-983-965-5444	Sequence 5444, Ap
C 33	34	3.4	172637	10	US-09-805-458A-3	Sequence 3, Appl1
C 34	33.8	3.4	1124	10	US-09-770-445-88	Sequence 88, Appl
C 35	33.8	3.4	4263	10	US-09-801-368-355	Sequence 355, App
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C 37	33.4	3.3	495	10	US-09-815-242-4527	Sequence 4527, Ap
C 38	33.4	3.3	525	10	US-09-815-242-8356	Sequence 8356, Ap
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C 40	33.4	3.3	525	10	US-09-815-242-8946	Sequence 8946, Ap
C 41	33	3.3	424	10	US-09-864-761-4675	Sequence 4675, Ap
C 42	33	3.3	27483	10	US-09-764-877-2928	Sequence 2928, Ap
C 43	32.8	3.3	207	10	US-09-960-352-15083	Sequence 15083, A
C 44	32.8	3.3	247	10	US-09-878-574-15598	Sequence 15598, A
C 45	32.8	3.3	704	10	US-09-880-107-1671	Sequence 1671, Ap

#### ALIGNMENTS

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RESULT 1
US-10-007-968-14
Sequence 14, Application US/10007968
Patent No. US20020139977A1
GENERAL INFORMATION:
APPLICANT: Coult, Peter C.
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
TITLE OF INVENTION: by Target Cells
FILE REFERENCE: AVigen-04082
CURRENT APPLICATION NUMBER: US/10/007, 968
CURRENT FILING DATE: 2001-12-13
PRIOR APPLICATION NUMBER: 09/740, 211
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: 60/125, 974
PRIOR FILING DATE: 1999-03-24
PRIOR APPLICATION NUMBER: 60/104, 994
PRIOR FILING DATE: 1998-10-20
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 14
LENGTH: 4999
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-007-968-14
Query Match 100.0%; Score 1001; DB 9; Length 4999;
Best Local Similarity 100.0%; Pred. No. 1.3e-285;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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2040 AATCAGATCCTCGGTCCTGACCCGCTATCTAGTTGCTTAATATGAGAGATC 2099
61 TAGCTTGAAGACTATTGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAAG 120
2100 TAGCTTGAAGACTATTGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAAG 2159
121 GAACACATATATGTCAGACAAGAGGATGTCATCTGTTTGTATTTGATGAGAACC 180
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Db 2400 GAGCAGACACTGATCT 2459  
QY 421 TCTATGAACACACACTCACCCTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 480  
Db 2460 TCTATGAACACACACTCACCCTATTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2519  
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QY 601 ATGAGATTTTTCAGATCT 660  
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RESULT 2  
US-09-740-211-14  
Sequence 14, Application US/09740211  
Patent No. US20010010815A1  
GENERAL INFORMATION:  
APPLICANT: Couto, Linda B.  
APPLICANT: Colosi, Peter C.  
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
TITLE OF INVENTION: by Target Cells  
FILE REFERENCE: AVigen-04082  
CURRENT APPLICATION NUMBER: US/09/740, 211  
CURRENT FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 09/470, 618  
PRIOR FILING DATE: 1999-12-22

Query Match 100.0%; Score 1001; DB 10; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 1,3e-285;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
; PRIOR APPLICATION NUMBER: 60/125, 974  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104, 994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 4999  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-740-211-14  
QY 1 AATCAGATCTCGGTGCTGACCCGCTATTTACTAGTTTCTGTTAATATGAGAGATC 60  
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QY 601 ATGAGATTTTTCAGATCT 660  
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Db 2820 TTGACATTTATGATGAGTGAATTCAGAGCCCGGAGCTTTCAAAAGAAACACAGAC 2879

QY 841 ACTATTTTTCGTGAGTGGAGAGGCTCTGGATATGAGTATGAGTCTCCCATG 900  
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RESULT 3  
US-09-150-811-7GENERAL INFORMATION:  
APPLICANT: Connelly, Sheila  
Kaleko, Michael

Smith, Theodore

TITLE OF INVENTION: Adenoviral Vectors for Treatment of Hemophilia

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESS: Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart &amp; Olstein

STREET: 6 Becker Farm Road

CITY: Roseland

STATE: New Jersey

COUNTRY: USA

ZIP: 07068

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch diskette

COMPUTER: IBM PS/2

OPERATING SYSTEM: MS-DOS

SOFTWARE: WordPerfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/150, 811

FILING DATE: 13-Sep-1998

CLASSIFICATION: &lt;unknown&gt;

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/484, 891

FILING DATE: 07-JUN-1995

APPLICATION NUMBER: 08/218, 335

FILING DATE: 25-MAR-1994

APPLICATION NUMBER: 08/074, 920

FILING DATE: 10-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Olstein, Elliot M.

REGISTRATION NUMBER: 24,025

REFERENCE/DOCKET NUMBER: 271010-440

TELECOMMUNICATION INFORMATION:

TELEPHONE: 973-994-1700

TELEFAX: 973-994-1744

SEQUENCE DESCRIPTION: SEQ ID NO: 7:

US-09-150-811-7

Query Match

Best Local Similarity 94.6%; Score 947.4; DB 10; Length 4629;

Matches 1000; Conservative 0; Mismatches 1; Indels 42; Gaps 1;

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QY 361 GAGCAGAGTGTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 420  
DB 1985 GAGCAGAGTGTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2044  
QY 421 TCTATGAGACACATCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 480  
DB 2045 TCTATGAGACACATCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2104  
QY 481 AAAACCCAGGCTATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 540  
DB 2105 AAAACCCAGGCTATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2164  
QY 541 CCGCTTACTGAGAGGTTTCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 600  
DB 2165 CCGCTTACTGAGAGGTTTCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2224  
QY 601 ATGAGATATTTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 660  
DB 2225 ATGAGATATTTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2284  
QY 661 CCCAGAT-----CCACAGTCT 678  
DB 2285 CCCAGATTTCAAGACACCTTACAGTGGTGGTGGTTCATGAGTGGTGGT 2344  
QY 679 TGAAGCCCATCAAGCCGAAATTAAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 738  
DB 2345 TGAAGCCCATCAAGCCGAAATTAAGTGGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2404  
QY 739 ACTATGATGATACATATGATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 798  
DB 2405 ACTATGATGATACATATGATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2464  
QY 799 ATGAAATTCAGAGCCCGGAGCTTTTCAAGAAACAGACACATATTTATGCTGCAG 858  
DB 2465 ATGAAATTCAGAGCCCGGAGCTTTTCAAGAAACAGACACATATTTATGCTGCAG 2524  
QY 859 TGGAGAGGCTCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 918  
DB 2525 TGGAGAGGCTCTGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2584  
QY 919 AGAGTGGCAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 978  
DB 2585 AGAGTGGCAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGTTCATGAGTGGTGGT 2644  
QY 979 TTACTCAGCCCTTATACCGTGA 1001  
DB 2645 TTACTCAGCCCTTATACCGTGA 2667

RESULT 4  
US-10-095-718-1  
Sequence 1, Application US/10095718  
Patent No. US20020131956A1  
GENERAL INFORMATION:  
APPLICANT: Walsh, Christopher  
APPLICANT: Chao, Hengjun  
APPLICANT: Burstein, Haim  
APPLICANT: Lynch, Carmel  
APPLICANT: Stepan, Tony  
APPLICANT: Munson, Keith  
TITLE OF INVENTION: Adeno-associated Virus Vectors Encoding Factor VIII and  
TITLE OF INVENTION: Methods of Using the Same  
FILE REFERENCE: 35052/204375

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1 CURRENT APPLICATION NUMBER: US/10/095,718
2 CURRENT FILING DATE: 2002-03-12
3 PRIOR APPLICATION NUMBER: 09/689,430
4 PRIOR FILING DATE: 2001-08-22
5 PRIOR APPLICATION NUMBER: 60/156,780
6 PRIOR FILING DATE: 1999-10-12
7 NUMBER OF SEQ ID NOS: 5
8 SOFTWARE: FastSeq for Windows Version 4.0
9 SEQ ID NO 1
10 LENGTH: 7944
11 TYPE: DNA
12 ORGANISM: Artificial Sequence
13 FEATURE:
14 OTHER INFORMATION: Plasmid pDLZ6 encoding Homo sapiens BDNF
15 FEATURE:
16 NAME/KEY: CDS
17 LOCATION: (420)...(4835)
18 US-10-095-718-1

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Query Match	94.68;	Score 947.4;	DB 12;	Length 7944;
Best Local Similarity	95.98;	Pred. No. 1.1e-269;		
Matches 1000; Conservative	0;	Mismatches 1;	Indels 42;	Gaps 1;

QY	1	AATGATATCTCGGGGCGCCGACCCGCTTACTCTAGTTTCCTTAATATGAGAGATC	60
Db	2044	AATCGATCTCTGGTCTGACCCGCTTACTCTAGTTTCCTTAATATGAGAGATC	2103
QY	61	TAGCTTCAGGACTATTTGGCCCTCTCTCATCTGCTACAAAGAAATCTAGATCAAGAG	120
Db	2104	TAGCTTCAGGACTATTTGGCCCTCTCTCATCTGCTACAAAGAAATCTAGATCAAGAG	2163
QY	121	GAACACATATATATGCACACAAAGAGAAATGATCTGTTTCTGATTTGATGGAACC	180
Db	2164	GAACACATATATATGTCAGACAGAGAAATGATCTGTTTCTGATTTGATGGAACC	2223
QY	181	GAAGCTGGTACTCTCAGACAGAAATATAGAAGCTTTCTCCCAATCCAGCTGAGTGCAGC	240
Db	2224	GAAGCTGGTACTCTCAGACAGAAATATAGAAGCTTTCTCCCAATCCAGCTGAGTGCAGC	2283
QY	241	TTTGAGATCCAGAGTTCCTCAAGCTCTCAACATCATACAGATCAATGTCATGTTTTG	300
Db	2284	TTTGAGATCCAGAGTTCCTCAAGCTCTCAACATCATACAGATCAATGTCATGTTTTG	2343
QY	301	ATAGTTTCCAGTTGTCAGATTTGTTTGCATGTAGAGTGGCATGCTAGACATTTGCAACATTTG	360
Db	2344	ATAGTTTCCAGTTGTCAGATTTGTTTGCATGTAGAGTGGCATGCTAGACATTTGCAACATTTG	2403
QY	361	GAGCAGACAGTGACTTCTCTTCTGTCTTCTCTGATATACCTTCAACAACAATAATGG	420
Db	2404	GAGCAGACAGTGACTTCTCTTCTGTCTTCTCTGATATACCTTCAACAACAATAATGG	2463
QY	421	TCTATMGAGACACACTCCATTTCCATTTCTCAGAGAAACTGTCTTCATGTGATGG	480
Db	2464	TCTATMGAGACACACTCCATTTCCATTTCTCAGAGAAACTGTCTTCATGTGATGG	2523
QY	481	AAAACCCAGCTCTATGTGATTTCTGGGGTCCCAACAATCAGACTTGGGAACAGAGCATGA	540
Db	2524	AAAACCCAGCTCTATGTGATTTCTGGGGTCCCAACAATCAGACTTGGGAACAGAGCATGA	2583
QY	541	CCGCCTTACTGAAAGTTCATAGTTGTGACAAAGAACTGGTGATTTATTCAGAGACAGTT	600
Db	2584	CCGCCTTACTGAAAGTTCATAGTTGTGACAAAGAACTGGTGATTTATTCAGAGACAGTT	2643
QY	601	ATGAAAGATTTTCAGCATACTGTCGATTAATAACAATGSCATGCAACCAAGAACTCTCT	660
Db	2644	ATGAAAGATTTTCAGCATACTGTCGATTAATAACAATGSCATGCAACCAAGAACTCTCT	2703
QY	661	CCACGAAT-----CCACGAGTCT	678
Db	2704	CCACGAATTTCAAGACACCCCTAGCACTAGCAAAAGCAATTTAATGCCCACCCACACAGTCT	2763
QY	679	TGAACGCCATCAACGCGAAATTAACGTCTACTCTTCAGTCAAGATCAAGAGAAATTTG	738

Db	2764	TGAAAGCGCATCAAGGGGAATAATACGTGTCCTACTCTTCAGTCAGATCAAGAGAAATTG	28232
QY	739	ACTATGATGATACCATATATCATGTTTGGAAATGAGAGAGAAATTTTGACATTATATGATGAG	798
Db	2834	ACTATGATGATACCATATATCATGTTTGGAAATGAGAGAGAAATTTTGACATTATATGATGAGG	28833
QY	799	ATGAAATCAGAGGCCCGCGAGCGTTTCAAAAGAAACAGACACTATTTTATTCGTGCG	858
Db	2884	ATGAAATCAGAGGCCCGCGAGCGTTTCAAAAGAAACAGACACTATTTTATTCGTGCGAG	29434
QY	859	TGAGAGGCTCTGGGATTTATGGGATAGTAGTCCTCCCAATCTTATAGAAACAGGCTC	918
Db	2944	TGAGAGGCTCTGGGATTTATGGGATAGTAGTCCTCCCAATGTTCTAAGAAACAGGCTC	30033
QY	919	AGAGTGGCAGTGTCCTCAAGTTCAAGAAAGTTGTTTTCAGGAATTTACTGATGGCTCT	978
Db	3004	AGAGTGGCAGTGTCCTCAAGTTCAAGAAAGTTGTTTTCAGGAATTTACTGATGGCTCT	30633
QY	979	TTACTCAGCCCTTATACCGTGA	1001
Db	3064	TTACTCAGCCCTTATACCGTGA	3086

RESULT 5  
US-10-007-968-13  
; Sequence 13, Application US/10007968  
; Patent No. US2002015997A1

```

1  GENERAL INFORMATION:
2  APPLICANT: Couto, Linda B.
3  APPLICANT: Colosi, Peter C.
4  TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
5  TITLE OF INVENTION: by Target Cells
6  FILE REFERENCE: Avigen-04082
7  CURRENT APPLICATION NUMBER: US/10/007,968
8  CURRENT FILING DATE: 2001-12-13
9  PRIOR APPLICATION NUMBER: 09/740,211
10 PRIOR FILING DATE: 2000-12-18
11 PRIOR APPLICATION NUMBER: 60/125,974
12 PRIOR FILING DATE: 1999-03-24
13 PRIOR APPLICATION NUMBER: 60/104,994
14 PRIOR FILING DATE: 1998-10-20
15 NUMBER OF SEQ ID NOS: 15
16 SOFTWARE: PatentIn Ver. 2.0
17 SEQ ID NO 13
18 LENGTH: 11933
19 TYPE: DNA
20 ORGANISM: Artificial Sequence
21 FEATURE:
22 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
23 US-10-007-968-13

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Query Match	91.8%	Score 919	DB 91	Length 119933
Best Local Similarity	96.4%	Pred. No. 3.4e-261		
Matches 965	Conservative	0	Mismatches 0	Indels 36
			Gaps	1
QY 1	AATCAGATCCTCCGTCCTCGACCCCGCTATTACTAGTTTCGTAATATGAGAGACATC	60		
Db 2051	AATCAGATCCTCGTGCTCGACCCCGCTATTACTAGTTTCGTAATATGAGAGACATC	2110		
QY 61	TAGCTTCAGAGACTCATTTGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG	120		
Db 2111	TAGCTTCAGAGACTCATTTGGCCCTCTCTCATCTGCTACAAAGATCTGTAGATCAAGAG	2170		
QY 121	GAACCCGATTAATGTAGACAGAGGAATGATCCTGTTTCTGTAATTGATGAGAAC	180		
Db 2171	GAACCCGATTAATGTAGACAGAGGAATGATCCTGTTTCTGTAATTGATGAGAAC	2230		
QY 181	GAAGCTGTGTAACCTCACAGAGAAATATACAACGGTTTCTCCCAATCAGCTGGAGTGCAGC	240		
Db 2231	GAAGCTGTGTAACCTCACAGAGAAATATACAACGGTTTCTCCCAATCAGCTGGAGTGCAGC	2290		
QY 241	TTGAGGATCCAGAGTTCCAAAGCCTCCAAACATCATGACACAGCATCAATAGCGTATGTTTTG	300		



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QY 961 AATTACTGATGGCTCCTTACTAGCCCTATACCGTGA 1001
      |||||
Db 2975 AATTACTGATGGCTCCTTACTAGCCCTATACCGTGA 3015
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RESULT 7  
US-10-095-718-3

```

; Sequence 3, Application US/10095718
; Patent No. US20020131956A1
; GENERAL INFORMATION:

```

APPLICANT:	Walsh, Christopher
APPLICANT:	Chao, Hengjun
APPLICANT:	Burstein, Haim
APPLICANT:	Lynch, Carmel
APPLICANT:	Stepan, Tony
APPLICANT:	Munson, Kelth
TITLE OF INVENTION:	Adeno-Associated Virus Vectors
TITLE OF INVENTION:	Methods of Using the Same

```

:
:
: OTHER INFORMATION: RAVV vector with canine B-domain deleted factor
:
: OTHER INFORMATION: VIII
:
: FEATURE:
:
: NAME/KEY: CDS
:
: LOCATION: (435)...(4730)
:
US-10-095-718-3

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Query Match	69.68;	Score 696.6;	DB 12;	Length 7914;
Best Local Similarity	83.18;	Pred. No. 1.5e-195;		
Matches 832; Conservative	0;	Mismatches 109;	Indels 60;	Gaps 1

QY	1	AAATAGTCTCGTGCTGACGACCCGCTATTACTCTAGTTTCTGTTAAATATGAGAGAGATC	60
Db	2041	AAATGATCTCTGGTGCCTGACCCGGAATTATCTCAAGCTTCAATTATCTGGGAGAGATTC	2100
QY	61	TAGCTTAGAGATCATTTGGGCTCTCTCATGCGTACAAAGAAATCTGTAGATCAAAAG	120
Db	2101	TAGCTTAGAGATCATTTGGGCTCTCTCATGCGTACAAAGAAATCTGTAGATCAAAAG	2160
QY	121	GAACACGATAAATGTGCAGACAGAGAGAAATGATCCTCGTTTCTGTATTTGTATGGAAC	180
Db	2161	GAACACGATAGATGTGCAGACAGAGAAATGATCCTCGTTTCTGTATTTGTATGGAATC	2220
QY	181	GAAGCTGGTACCTCAGACAGAAATATCAACGCTTCTCCCAATCAGCTGGAGTGCAC	240
Db	2221	GAAGCTGGTACCTCAGACAGAAATATCAGACGCTTCTCCCAATCAGATGTAATGTCAC	2280
QY	241	TTGAGGATCCAGATTCACAAGCCTCCACATCATGACACAGATCAATGGCTATGTTTTG	300
Db	2281	CCCATGACCCAGATTCACAACCTCTCAACATCATGTGACAGATCAATGGCTATGTTTTG	2340
QY	301	ATATGTTTGCAATTTGTACGTTTGTGTCATGAGGTGGCATACTGGTACATTTCAAGCATG	360
Db	2341	ACAACTTTCAGCTGTCAATTTGTTTGCAATGAGGTGGCGTACTGTACATTTCAAGTGTG	2400
QY	361	GAGCAGAGATGACTTCTTTCTGTCTTCTTCTGTGATATACCTTCAAAACAAAATGG	420
Db	2401	GAGCAGAAAATGACTTCTGTCTGTCTTCTTCTGTGATATACCTTCAAAACAAAATGG	2460
QY	421	TCATATGAGACACTCACCCCTATTCCACTTTCAGAGAGAAATGTCCTTCAATGTGCATG	480

Db 2461 TCTATGAGACACACTTACCCCTTCTCCCATTCACGAGAACTGCTTCATGTCATG 2520

481 AAAACCCAGGTCATGGATTCTGGGGTGCACAACTCAGACTTTCCGAACAGAGCATGA 540

Db 2521 AAAACCCAGGCTCTGGGGTTCCTGGGGTGGCACAACCTCAGACCTTTCCGAAACAGGGCATCA 2580

541 CCGCCTTACTGAAGTTTCTAGTTGTGACAAGAACACTGGTGATTTATTACGAGGACGTT 600

Db 2581 CAGCCTACTGAAGTTTCTAGTTTGAACAGACGACATTGATGATTATTATGAGGACACAT 2640

601 ATGAAGATATTTCAGCATCTTGTGAGTAATAACAATGCCATTGACCAAGAGCTTCT 660

Db 2641 ACGAGATATTCACACTCCCTGCTAATGAAGAAACAATGTAATTAAACCTAGAACCTTCT 2700

661 CCCAGATCCACCAGTCTTGAACGCCATCAACGGAATAACTCGTACTACTCTTCAGT 720

Db 2701 CCCAGATTCAAGGCACCCCTAGCACTAAGCAAAAGCAATTGA-----2742

QY 721 CAGATCAGAGCAATTGACTATGATGATACCATATCAGTTGAATGAGGAAGCAAGATT 780  
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Db 2743 -----AAATGACAGAGAGAGATT 2760

2761 TTGACATTTATGATGAGCATGAAAAACAG6CCCCCAGCTTTCAAAGAAAAACAGAC 840  
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841 ACTATTTATTCCTGCAGTAGGAGAGGCTCTGGGATTTATGGGATGACCTAGCTCCCCACATG 900  
LD IISRCAICICFCGGCGRACIMIGRHHICAGGSCCLCCGCACTTTCMAAGAAACACGAC 2020  
2701 IISRCAICICFCGGCGRACIMIGRHHICAGGSCCLCCGCACTTTCMAAGAAACACGAC 2020

Db 2821 ACTATTTCATTGCTGCAGTCGAGCGTCTCTGGGATTATGGAGTACGATCTCCCATATA 2880

901 TTCTAAGAACAGGGCTCAGAGTGGCAGTGTCCCTCAGTTCAGAAGATTGTTTCCAGG 960

Db 2881 TACTAAGAACAGGGCTCAAGTGGGATGTCACGACGTTCAAGAAGGCGTTTCCAGG 2940

961 AATTACTGATGGCTCCCTTACTACAGCCCTTATACCGTGA 1001

Db 294.1 AATTACTGATGGATCCTTACTCAGCCCTTATACCGTGA 2981

## RESULT 8

RESULT 8  
US-09-957-641-1  
; Sequence 1, Application US/09957641  
; Publication No. US20020182670A1  
: GENERAL INFORMATION:

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1  APPLICANT: Emory University
2  TITLE OF INVENTION: MODIFIED FACTOR VIII
3  FILE REFERENCE: 75-00
4  CURRENT APPLICATION NUMBER: US/09/957,644
5  CURRENT FILING DATE: 2001-09-16
6  PRIOR APPLICATION NUMBER: US 60/234047
7  PRIOR FILING DATE: 2000-09-19
8  PRIOR APPLICATION NUMBER: US 60/236460
9  PRIOR FILING DATE: 2000-09-29
10 NUMBER OF SEQ ID NOS: 18
11 SOFTWARE: PatentIn Ver. 2.0

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; SEQ ID NO 1
;
; LENGTH: 9009
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; FEATURE:
;
; NAME/KEY: CDS
;
; LOCATION: (208)..(7203)
;
US-09-957-641-1

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Query Match	67.0%;	Score 671;	DB 9;	Length 9009;
Best Local Similarity	94.6%;	Pred. No. 6e-188;		
Matches 695; Conservative	0;	Mismatches 40;	Indels 0;	Gaps 0;

QY 1 AATCAGATCCTCGGTGCCCTGACCCCGCTATTACTCTAGTTTCGTTAAATGAGAGAGATC 60  
|||||  
Dp 1775 AATCAGATCCTCGGTGCCCTGACCCCGCTATTACTCTAGTTTCGTTAAATGAGAGAGATC 1830

Qy	61	TAGCTTAGAGACATATTTGGCCCTCTCCATATCGCTACAAAGAAATCTGTAGTCAAAG	120
Db	1835	TAGCTTAGAGACATATTTGGCCCTCTCCATATCGCTACAAAGAAATCTGTAGTCAAAG	1894
Qy	121	GAACACGATATATGTGCAGACAAAGGAATGTCACTCTGTTTCTGTATTTGATGAGAAC	180
Db	1895	GAACACGATATATGTGCAGACAAAGGAATGTCACTCTGTTTCTGTATTTGATGAGAAC	1954
Qy	181	GAACTGTGTACCTCAGACAAATATCAACGCTTCTCTCCAAATCAGCTGGAGTGCAGC	240
Db	1955	GAACTGTGTACCTCAGACAAATATCAACGCTTCTCTCCAAATCAGCTGGAGTGCAGC	2014
Qy	241	TTTGAGATCCAGAGTTTCCAGCCCTCCAAACATCATGACACAGCATCAATGCTATGTTTTG	300
Db	2015	TTTGAGATCCAGAGTTTCCAGCCCTCCAAACATCATGACACAGCATCAATGCTATGTTTTG	2074
Qy	301	ATATGTTGCAGTGTCACTGTTGTTTGCATGAGGTGCATCTAGTGTACATTTCTAAGCATTG	360
Db	2075	ATATGTTGCAGTGTCTCACTGTTGTTTGCATGAGGTGCATCTAGTGTACATTTCTAAGCATTG	2134
Qy	361	GAGACAGACATGACTTCCTTCTGTCTCTCTCTGATATACCTTCAACCAACAATAGG	420
Db	2135	GAGACAGACATGACTTCCTTCTGTCTCTCTCTGATATACCTTCAACCAACAATAGG	2194
Qy	421	TCTATGAAGACACACTCACCCCTATTCOCATTTCTCAGAGAAACTGTTCATGTGCATGG	480
Db	2195	TCTATGAAGACACACTCACCCCTATTCOCATTTCTCAGAGAAACTGTTCATGTGCATGG	2254
Qy	481	AAAACCCAGGCTATGTGATCTTGGGGTGCACAACTGACAACTTGGGAACAAAGCATGA	540
Db	2255	AAAACCCAGGCTATGTGATCTTGGGGTGCACAACTGACAACTTGGGAACAAAGCATGA	2314
Qy	541	CCGCTTACTGTAAGTTCCTAGTTGTGTACAAGAACACTGGTATATTTACGAGGACAGTT	600
Db	2315	CCGCTTACTGTAAGTTCCTAGTTGTGTACAAGAACACTGGTATATTTACGAGGACAGTT	2374
Qy	601	ATGAAGATATTTCCAGTACTTCTGCTGATGTAAACAAATGCATTTGACCAAGAACCTCT	660
Db	2375	ATGAAGATATTTCCAGTACTTCTGCTGATGTAAACAAATGCATTTGACCAAGAACCTCT	2434
Qy	661	CCCAAGATCCACAGTCTTGAACAGCCATCAACGCGAAATTACTGCTACTCTACTGCT	720
Db	2435	CCCAAGATTCACAGACCCCTAGCATAGGCAAAAGCAATTTAATGCCACCAATTTCCAG	2494
Qy	721	CAGATCAAGAGAGAA 735	
Db	2495	AAAATGACATAGAGA 2509	

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1 RESULT 9
2 US-09-880-107-2275
3 / Sequence 2275, Application US/09880107
4 / Patent No. US20020142981A1
5 /
6 / GENERAL INFORMATION:
7 /
8 / APPLICANT: Horne, Darci T.
9 /
10 / APPLICANT: Vockley, Joseph G.
11 /
12 / APPLICANT: Scherf, Uwe
13 /
14 / APPLICANT: Gene Logic, Inc.
15 /
16 / TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
17 /
18 / FILE REFERENCE: 44921-5028-MO
19 /
20 / CURRENT APPLICATION NUMBER: US/09/880,107
21 /
22 / CURRENT FILING DATE: 2001-06-14
23 /
24 / PRIOR APPLICATION NUMBER: US 60/211,379
25 /
26 / PRIOR FILING DATE: 2000-06-14
27 /
28 / PRIOR APPLICATION NUMBER: US 60/237,054
29 /
30 / PRIOR FILING DATE: 2000-10-02
31 /
32 / NUMBER OF SEQ ID NOS: 3950
33 /
34 / SOFTWARE: PatentIn Ver. 2.1
35 /
36 / SEQ ID NO 2275
37 /
38 / LENGTH: 6909
39 /
40 / TYPE: DNA
41 /
42 / ORGANISM: Homo sapiens
43 /
44 / FEATURE:
45 /

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OTHER INFORMATION: Genbank Accession No. US20020142981A1 M16967  
US-09-880-107-2275

Query Match	15.3%;	Score 153.6;	DB 10;	Length 6909;
Best Local Similarity	54.4%;	Pred. No. 4.6e-35;		
Matches 331;	Conservative 0;	Mismatches 274;	Indels 3;	Gaps 1;

OY	1	AAAGAGATCCCGGTGGCTCCAGCCCGGTATTAACCTAGTTGGTTAAATGGAGAGAGATC	60
Db	1574	AAATATGATGCCAGTGGCTTACCAAGACCACTACTACAGTACGTGGACATCATGAGAGACA	1633
OY	61	TAGCTTTAGGACTCATATGGGCCCTCTCCATCTGCTACAAAGAACTGTAAATCAAAAG	120
Db	1634	TGCGCTCTGGGGTAAATATGAGCACTTCTATCTGTAAAGACAGATCCCTGGACAGGGAG	1693
OY	121	GAAAACCATATATGTACAGACAGAGAAATGTCATCTGTTTCTGTATTTATGAGAAC	180
Db	1694	GAATACACAGAGGCGAGCAGACATGAACACAGAGCGTGTGTTACTCTGTTTATGAGAAC	1753
OY	181	GAACCTGGTACCTCCACAGACATATATCAAGCGTTTCTCCCAATCCAGCTGGAGGAGC	240
Db	1754	AAACCTGGTACCTTTAGAGGACAAATCAACAAGTTTGTGAAATCTCTATGAGGTGAAC	1813
OY	241	TTGAGATTCAGAGTTTCCAAAGCCCTCCACATCATGCACAGCATCAATGGCATGTTTG	300
Db	1814	GTGATGAACCCCAATTTTATGATTAACAACATCATGAGCACTATCAATGGCATGTCCTG	1873
OY	301	ATATGTTGC--AGTTCTCAGTTTGTTCATGATGAGTGGCATCTGATCATTTCAAGCA	357
Db	1874	AGACCAATCACTACTCTTGATCTGTGATGATACACTGTCCAGGGGACATTTCTGTATG	1933
OY	358	TTGGAGACAGACACTGACTTCTCTTCTGTCCTCTGTGATATACCTTCAACACAAAA	417
Db	1934	TGGGAGACCCAAATGAATTTTGACATTCACCTCACTGGGACATCATTCATCATGTGAA	1993
OY	418	TGCTCTATGAAGACACACTACCCCTATTCCTCATCTTCACAGAGAAAACTGTTCTTACGTGA	477
Db	1994	AGAGCGATGAGACACCTTCACCTCTCCCTCCCATGCGTGGAAATCTGTGAGCGGTCAAA	2053
OY	478	TGGAAGAACCCAGGTCTATGATATCTGGGGGACACAACTCAACATTTTGGAAACAGAGCA	537
Db	2054	TGGATTAATGTTGGAACCTTGGATGTTAATCTTCCATGAATTTCTAGTCCAAAGAGAAAAAGC	2113
OY	538	TGACCGCCTTACTGAGAGTTTCTAGTTGTGACAAAGAACCTGGTGAATTTATACGAGACA	597
Db	2114	TGAGCGTGAATTTACGAGATGTTAAATGTATCCAGATGATGATGAAGACATCATATGAGA	2173
OY	598	GTTATGAA 605	
Db	2174	TTTTTGAA 2181	

RESULT 10  
US-09-917-800A-1539  
Sequence 1539, Application US/09917800A  
Patent No. US20020119462A1  
GENERAL INFORMATION:  
APPLICANT: Menditck, Donna  
APPLICANT: Porter, Mark  
APPLICANT: Johnson, Rory  
APPLICANT: Castie, Arthur  
APPLICANT: Elashoff, Michael  
APPLICANT: Gene Logic, Inc.  
TITLE OF INVENTION: Molecular Toxicology Modeling  
FILE REFERENCE: 44921-5038-US  
CURRENT APPLICATION NUMBER: US/09/917,800A  
CURRENT FILING DATE: 2001-07-31  
PRIOR APPLICATION NUMBER: US 60/222,040  
PRIOR FILING DATE: 2000-07-31  
PRIOR APPLICATION NUMBER: US 60/222,880  
PRIOR FILING DATE: 2000-11-02  
PRIOR APPLICATION NUMBER: US 60/290,029  
PRIOR FILING DATE: 2001-05-11







;; CURRENT APPLICATION NUMBER: US/09/864,864  
;; CURRENT FILING DATE: 2001-05-23  
;; NUMBER OF SEQ ID NOS: 341  
;; SOFTWARE: Corixa Invention Disclosure Database  
;; SEQ ID NO 114  
;; LENGTH: 596  
;; TYPE: DNA  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; NAME/KEY: misc-feature  
;; LOCATION: (1)...(596)  
;; OTHER INFORMATION: n = A,T,C or G  
US-09-864-864-114

Query Match 6.3%; Score 63; DB 10; Length 596;  
Best Local Similarity 49.6%; Pred. No. 7.8e-09;  
Matches 190; Conservative 0; Mismatches 190; Indels 3; Gaps 1;

QY 161 TCTGTATTGATGAGAACCGAAGCTGTTACTCAGAGAAATATACAAAGCTTTCTCC 220  
DB 12 TACAGATTGATGAGAAATGAGAGATTACTCCTGGAAGATATATAGATGTAAAC 71  
QY 221 CAATCAGCTGAGTGCACCTTGAGATGAGATTCAGAGCTCCAGCATCATCATCAG 280  
DB 72 TGCACCTGATCAGGTGATGAGAGAGATGAAAGCTTTCAGATCTAATAAATGCACTC 131  
QY 281 CATCAATGCGCTATGTTTGTATGATTTGCACT---TGTGAGTTTGTTCATGAGGTGC 337  
DB 132 CATGATGATTCATGATGATGAGATCAGCGGCTCTCACTATGTCAGAAAGAGATTCGT 191  
QY 338 ATACGTGATCATTTACGATTGAGACACAGACTGACTCTTCTGCTTCTCTCTG 397  
DB 192 CGTGTGATCTTATTCAGGCGGGAATGAGCGCATGATGAGAAATATCTTTTCAAG 251  
QY 398 ATATACCTTCAAAACAAAGTCTATGAGAGACACACTCCATCCATTCCTCAGG 457  
DB 252 AAACACATATCTGTGAGAGAGGAAACGAGAGACACAGCAACCTTCCCTCAACAG 311  
QY 458 AGAACTGTCTTCATGTCGATGAGAAACCAAGTCTATGATTTGGGGTCCACAACTC 517  
DB 312 TCTTACGCTCCACATGTGGCTGACACAGAGGGACTTTTATGTGATGCTTACAC 371  
QY 518 AGACTTGGGAACAGGATCA 540  
DB 372 TGATCATTCACAGGCGGATCA 394

## RESULT 15

US-09-778-320-132/C  
;; Sequence 132: Application US/09778320  
;; Patent No. US20010034052A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Dillon, Davin C.  
;; APPLICANT: Day, Craig H.  
;; APPLICANT: Jiang, Yugu  
;; APPLICANT: Houghton, Raymond L.  
;; APPLICANT: Mitcham, Jennifer  
;; APPLICANT: Wang, TongTong  
;; APPLICANT: McNeill, Patricia D.  
;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
;; FILE REFERENCE: 210121.491C5  
;; CURRENT APPLICATION NUMBER: US/09/778.320  
;; CURRENT FILING DATE: 2001-02-06  
;; NUMBER OF SEQ ID NOS: 301  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 132  
;; LENGTH: 404  
;; TYPE: DNA  
;; ORGANISM: Homo sapien  
;; FEATURE:  
;; NAME/KEY: misc-feature  
;; LOCATION: (1)...(404)

;; OTHER INFORMATION: n = A,T,C or G  
US-09-778-320-132

Query Match 6.2%; Score 61.8; DB 10; Length 404;  
Best Local Similarity 52.0%; Pred. No. 1.4e-08;  
Matches 158; Conservative 0; Mismatches 145; Indels 1; Gaps 1;

QY 9 COTGAGTGCCTGACCCGCTATTACTAGTGTTCGTTAATGAGAGAGATAGCTTCA 68  
DB 341 CTTGTGTCTAGCTAGATGATGATTTATGCTGTGATCCACTAAGATATATTCAC 282  
QY 69 GACTCATTTGGCCCTCTCCATCTGCTACAAAGATCTGATCAAGAAACAG 128  
DB 281 GGGCTTATTTGGCCAAATGAAATATGCAAGAAAGAGATTATATGCAATFGGAGAG 222  
QY 129 ATATGTCAGACAGAGAGATGTCATCTGTTTCTGATTTGATGAAACCGAGCTGG 188  
DB 221 AAAGATGTAGCAAGGAATTCATTTGTTCTTACAGTATTTGATGAAATGAGAGTT 162  
QY 189 TACCTCACAGAGAAAT-TACAAGCTTTCTCCCAATCCAGCTGAGAGCTTGAG 247  
DB 161 CTCCTGGAAGATATATATAGSNATGTTTACACTGCMCTGATCAGTGGATGAGAG 102  
QY 248 TCCAGAGTTCCAGCCTCCCAACATCATGACACAGCATCAATGCTATGTTTGTATG 307  
DB 101 TGAAGACTTTCAGGNATCTAATAAATGCACTCATGATGATGATTCATGATGAGAT 42  
QY 308 GCAG 311  
DB 41 GCCG 38

Search completed: January 5, 2003, 03:12:15  
Job time : 118 secs

GenCore version 5.1.3  
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OM nucleic - nucleic search, using SW model

Run on: January 4, 2003, 23:31:50 ; Search time 47 Seconds  
(without alignments)  
6531.563 Million cell updates/sec

Title: US-09-740-211-14\_COPY\_3600\_4600

Perfect score: 1001  
Sequence: 1 atcaagaatgatggtat.....gcagtaagaatgcatcag 1001

Scoring table:  
IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents, NA.\*  
1: /cgn2\_6/ptodata/1/ina/5A\_COMB.seq.\*  
2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq.\*  
3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*  
4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*  
5: /cgn2\_6/ptodata/1/ina/PCITUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/1/ina/backfilest.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1001	100.0	4629	US-08-484-891-7	Sequence 7, Appl
2	1001	100.0	4670	US-08-717-294-41	Sequence 41, Appl
3	1001	100.0	4999	US-09-470-618-14	Sequence 14, Appl
4	1001	100.0	4899	US-09-364-862-14	Sequence 14, Appl
5	1001	100.0	5035	US-08-882-083-1	Sequence 1, Appl
6	1001	100.0	5035	US-08-558-107-1	Sequence 1, Appl
7	1001	100.0	5035	US-09-243-539-1	Sequence 1, Appl
8	1001	100.0	7056	US-08-121-202-1	Sequence 1, Appl
9	1001	100.0	8967	US-08-366-851A-1	Sequence 1, Appl
10	1001	100.0	9009	US-07-864-004B-3	Sequence 3, Appl
11	1001	100.0	9009	US-08-251-937A-3	Sequence 3, Appl
12	1001	100.0	9009	US-08-212-133A-1	Sequence 1, Appl
13	1001	100.0	9009	US-08-474-503-1	Sequence 1, Appl
14	1001	100.0	9009	US-08-670-707A-1	Sequence 1, Appl
15	1001	100.0	9009	US-09-037-601-1	Sequence 1, Appl
16	1001	100.0	9009	US-09-315-179-1	Sequence 1, Appl
17	1001	100.0	9009	US-09-523-656-1	Sequence 1, Appl
18	1001	100.0	9009	PCT-US83-03275-3	Sequence 3, Appl
19	1001	100.0	9009	PCT-US94-13200-1	Sequence 1, Appl
20	1001	100.0	9354	US-08-683-839B-2	Sequence 2, Appl
21	1001	100.0	11933	US-09-470-618-13	Sequence 13, Appl
22	1001	100.0	11933	US-09-364-862-13	Sequence 13, Appl
23	999.4	99.8	8241	5171844-1	Patient No. 5171844
24	997.8	99.7	6999	US-08-276-594A-1	Sequence 1, Appl
25	843.2	84.2	7493	US-08-212-133A-7	Sequence 7, Appl
26	843.2	84.2	7493	US-08-474-503-5	Sequence 5, Appl
27	843.2	84.2	7493	US-08-670-707A-5	Sequence 5, Appl

28	843.2	84.2	7493	4	US-09-037-601-5	Sequence 5, Appl
29	843.2	84.2	7493	4	US-09-315-179-5	Sequence 5, Appl
30	843.2	84.2	7493	5	PCT-US94-13200-5	Sequence 5, Appl
31	841.6	84.1	7032	4	US-09-324-867-1	Sequence 1, Appl
32	808.8	80.8	4334	2	US-08-670-707A-38	Sequence 38, Appl
33	808.8	80.8	4334	4	US-09-037-601-38	Sequence 38, Appl
34	808.8	80.8	4434	4	US-09-315-179-38	Sequence 38, Appl
35	808.8	80.8	4434	4	US-09-523-656-37	Sequence 37, Appl
36	808.8	80.8	6402	2	US-08-670-707A-36	Sequence 36, Appl
37	808.8	80.8	6402	4	US-09-037-601-36	Sequence 36, Appl
38	808.8	80.8	6402	4	US-09-315-179-36	Sequence 29, Appl
39	808.8	80.8	6402	4	US-09-523-656-29	Sequence 42, Appl
40	609	60.8	4451	3	US-08-717-294-42	Sequence 4, Appl
41	202.2	20.2	6585	3	US-08-746-111-4	Sequence 1, Appl
42	198.2	19.8	6909	2	US-08-804-196-1	Sequence 1, Appl
43	198.2	19.8	6909	2	US-08-658-340-1	Sequence 1, Appl
44	198.2	19.8	6909	3	US-08-746-111-26	Sequence 26, Appl
45	93.4	9.3	1780	2	US-08-480-229C-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1  
US-08-484-891-7  
Sequence 7, Application US/08484891  
Patent No. 5935935  
GENERAL INFORMATION:  
APPLICANT: Connolly, Sheila  
APPLICANT: Kaleko, Michael  
APPLICANT: Smith, Theodore  
TITLE OF INVENTION: Adenoviral Vectors for  
TITL OF INVENTION: Treatment of Hemophilia  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan,  
ADDRESSEE: Cecchi, Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,891  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/218,335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074,920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24,025  
REFERENCE/DOCKET NUMBER: 271010-273  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4629 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA primer  
FEATURE:  
NAME/KEY: Factor VIII cDNA with  
NAME/KEY: B domain deleted

US-08-484-891-7

Query Match 100.0%; Score 1001; DB 2; Length 4629;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACCAATGAAACATTCATTATTC 60  
DB 3227 ATCAAGAGATTCATGATGATCTGCTGAGATGGGACCAATGAAACATTCATTATTC 3286  
QY 61 ATTTCAGTGCACATGTTGCTACGTACGAAAAAAGAGAGATATAAAGGACCTGTACA 120  
DB 3287 ATTTCAGTGCACATGTTGCTACGTACGAAAAAAGAGAGATATAAAGGACCTGTACA 3346  
QY 121 ATCTATATCCAGGTGTTTTGAGACAGTGAATGTTTACCATCCAAAGCTGAATTTGGC 180  
DB 3347 ATCTATATCCAGGTGTTTTGAGACAGTGAATGTTTACCATCCAAAGCTGAATTTGGC 3406  
QY 181 GGGTGAATGCTTATTTGGGACGATCTACATGCTGGATGAGACACTTTTCTGGTGT 240  
DB 3407 GGGTGAATGCTTATTTGGGACGATCTACATGCTGGATGAGACACTTTTCTGGTGT 3466  
QY 241 ACAGCAATAGTGTACAGTCTCCCTGGGAATGCTTCTGGACACATTAAGATTTTTCAGA 300  
DB 3467 ACAGCAATAGTGTACAGTCTCCCTGGGAATGCTTCTGGACACATTAAGATTTTTCAGA 3526  
QY 301 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAGCTGGCCAGACTTCTATATTCGG 360  
DB 3527 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAGCTGGCCAGACTTCTATATTCGG 3586  
QY 361 GATCATATCAATGCTGGAGACCAAGAGCCCTTTTCTGGATCAAGGTGGATCTGTTGG 420  
DB 3587 GATCATATCAATGCTGGAGACCAAGAGCCCTTTTCTGGATCAAGGTGGATCTGTTGG 3646  
QY 421 CACCAATGATTTATTCACGCGCATCAAGACCCAGGTGGCCGTCAGAAAGTTCTCCAGCCTCT 480  
DB 3647 CACCAATGATTTATTCACGCGCATCAAGACCCAGGTGGCCGTCAGAAAGTTCTCCAGCCTCT 3706  
QY 481 ACATCTCTGATTTATTCATCATGATATGATCTGTGATGAGAGAAAGTGGACAGATTAATGAG 540  
DB 3707 ACATCTCTGATTTATTCATCATGATATGATCTGTGATGAGAGAAAGTGGACAGATTAATGAG 3766  
QY 541 GAAATTTCCACTGGAACCTTAATGGCTCTTGGCAATGATGATCATCTGGGATTAAC 600  
DB 3767 GAAATTTCCACTGGAACCTTAATGGCTCTTGGCAATGATGATCATCTGGGATTAAC 3826  
QY 601 ACAATATTTTAAACCTCCAAATTTATGCTGATACATCCGTTTGGACCCAACTCATTTATA 660  
DB 3827 ACAATATTTTAAACCTCCAAATTTATGCTGATACATCCGTTTGGACCCAACTCATTTATA 3886  
QY 661 GCATTCGACGACCTTTGGCATGGAGTTGATGGCTGTGATTTAAATATGTTGCAGCATGC 720  
DB 3887 GCATTCGACGACCTTTGGCATGGAGTTGATGGCTGTGATTTAAATATGTTGCAGCATGC 3946  
QY 721 CATTTGGAGATGAGAGATTAAGCAATATGATGACAGATTAAGTCTCATCTCACTTAA 780  
DB 3947 CATTTGGAGATGAGAGATTAAGCAATATGATGACAGATTAAGTCTCATCTCACTTAA 4006  
QY 781 CCAATATGTTTGGCACGCTGCTCTTCAAAAAGCTGCACTTACCTCCCAAGGAGAGATA 840  
DB 4007 CCAATATGTTTGGCACGCTGCTCTTCAAAAAGCTGCACTTACCTCCCAAGGAGAGATA 4066  
QY 841 ATGCTGTGAGACCTTGAATGATTAATCCAAAAGAGTGGCTCCAAAGTGCATTTCCAGAGA 900  
DB 4067 ATGCTGTGAGACCTTGAATGATTAATCCAAAAGAGTGGCTCCAAAGTGCATTTCCAGAGA 4126  
QY 901 CAATGAAGTGCACAGAGATTAATCTACTGAGGAGTAAATCTCTGTTACCGCAGATGATG 960  
DB 4127 CAATGAAGTGCACAGAGATTAATCTACTGAGGAGTAAATCTCTGTTACCGCAGATGATG 4186  
QY 961 TGAAGAGTTCTCATCTCCAGACAGTCAAGATGGCCATTCAG 1001  
DB 4187 TGAAGAGTTCTCATCTCCAGACAGTCAAGATGGCCATTCAG 4227

## RESULT 2

US-08-717-294-41

; Sequence 41, Application US/08717294

; Patent No. 6114148

; GENERAL INFORMATION:

; APPLICANT: SEED, BRIAN

; APPLICANT: HAAS, JURGEN

; TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF

; NUMBER OF SEQUENCES: 110

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Clark &amp; Elbing LLP

; STREET: 176 Federal Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: DOS

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; FILING DATE: 20-SEP-1996

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Elbing, Karen L.

; REGISTRATION NUMBER: 35,238

; REFERENCE/DOCKET NUMBER: 00786/345001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617-428-0200

; TELEFAX: 617-428-7045

; TELEX:

; INFORMATION FOR SEQ ID NO: 41:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 4670 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

US-08-717-294-41

Query Match 100.0%; Score 1001; DB 3; Length 4670;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGAGATTCGATGATGATCTGCTGAGATGGGACCAATGAAACATTCATTATTC 60  
DB 3253 ATCAAGAGATTCGATGATGATCTGCTGAGATGGGACCAATGAAACATTCATTATTC 3312  
QY 61 ATTTCAGTGCACATGTTGCTACGTACGAAAAAAGAGAGATATAAAGGACCTGTACA 120  
DB 3313 ATTTCAGTGCACATGTTGCTACGTACGAAAAAAGAGAGATATAAAGGACCTGTACA 3372  
QY 121 ATCTATATCCAGGTGTTTTGAGACAGTGAATGTTTACCATCCAAAGCTGAATTTGGC 180  
DB 3373 ATCTATATCCAGGTGTTTTGAGACAGTGAATGTTTACCATCCAAAGCTGAATTTGGC 3432  
QY 181 GGGTGAATGCTTATTTGGGACGATCTACATGCTGGATGAGACACTTTTCTGGTGT 240  
DB 3433 GGGTGAATGCTTATTTGGGACGATCTACATGCTGGATGAGACACTTTTCTGGTGT 3492  
QY 241 ACAGCAATAGTGTACAGACTCCCTGGGAATGCTTCTGGACACATTAAGATTTTTCAGA 300  
DB 3493 ACAGCAATAGTGTACAGACTCCCTGGGAATGCTTCTGGACACATTAAGATTTTTCAGA 3552  
QY 301 TTACAGCTTCAGACAAATATGAGACAGTGGGCCCAAAGCTGGCCAGACTTCTATATTCGG 360

Db	3553	TTACAGCTTCAGAGCATATATGAGACAGTGGGGCCCCCAAGCGGGGACACTTCAATTTATCGG	3612
QY	361	GATCAATCAATGCGCTGGAGCACCAGAGAGCCCTTTTCTTGATCAAGTGGATCTGTGG	420
Db	3613	GATCAATCAATGCGCTGGAGCACCAGAGAGCCCTTTTCTTGATCAAGTGGATCTGTGG	3672
QY	421	CACCAATGATTAATTCACGGCATCAAGACCAGGGGTCCCGTCAGAGTCTCCAGCCTCT	480
Db	3673	CACCAATGATTAATTCACGGCATCAAGACCAGGGGTCCCGTCAGAGTCTCCAGCCTCT	3732
QY	481	ACATCTCTCAGTTTATCATCATGATATAGTCTTGATGGGAAGTAAGTGGCACTTATCGAG	540
Db	3733	ACATCTCTCAGTTTATCATCATGATATAGTCTTGATGGGAAGTAAGTGGCACTTATCGAG	3792
QY	541	GAATTCCTCAGTGAACCTTAATGGTCTCTTGGCAATGGATGGATATCGGATTAAC	600
Db	3793	GAATTCCTCAGTGAACCTTAATGGTCTCTTGGCAATGGATGGATATCGGATTAAC	3852
QY	601	ACAATATTTTAAACCCCTCAATTAATTTGCTCGATACATCCGTTTGGCACCCAACTCATTTA	660
Db	3853	ACAATATTTTAAACCCCTCAATTAATTTGCTCGATACATCCGTTTGGCACCCAACTCATTTA	3912
QY	661	GCATTCGCAAGCAGCTTTCGATGAGTGAATGGGCTGTGATTTAAATAGTTCAGCATCG	720
Db	3913	GCATTCGCAAGCAGCTTTCGATGAGTGAATGGGCTGTGATTTAAATAGTTCAGCATCG	3972
QY	721	CATTGGGAATGAAGATGAAGCATATTCAGATGCGACGATTAATCTGCTCATCTTA	780
Db	3973	CATTGGGAATGAAGATGAAGCATATTCAGATGCGACGATTAATCTGCTCATCTTA	4032
QY	781	CCAAATATGTTTGGCAGCCTGTGTCTCTTCAAAAAGCTCGACTTCACCTTCCAAAGSAGSAGTA	840
Db	4033	CCAAATATGTTTGGCAGCCTGTGTCTCTTCAAAAAGCTCGACTTCACCTTCCAAAGSAGSAGTA	4092
QY	841	ATGCGTGGAGACCTTCAGTGAATTAATCCAAAAGGTGGCGCAAGTGGCATTCACAGAGA	900
Db	4093	ATGCGTGGAGACCTTCAGTGAATTAATCCAAAAGGTGGCGCAAGTGGCATTCACAGAGA	4152
QY	901	CAATGAAGATCACAGAGTAATCTACTCAGAGGAGTAAATCTCTGCTTACAGCATGTATG	960
Db	4153	CAATGAAGATCACAGAGTAATCTACTCAGAGGAGTAAATCTCTGCTTACAGCATGTATG	4212
QY	961	TGAAGAGATTCTCTATCTTCACAGAGTCAAGATGGCCATCAG	1001
Db	4213	TGAAGAGATTCTCTCTATCTTCACAGAGTCAAGATGGCCATCAG	4253
RESULT 3			
US-09-470-618-14			
Sequence 14, Application US/09470618			
Patent No. 6200560			
GENERAL INFORMATION:			
APPLICANT: Couto, Linda B.			
APPLICANT: Colosi, Peter C.			
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII			
FILE REFERENCE: Avigen-04082			
CURRENT APPLICATION NUMBER: US/09/470, 618			
CURRENT FILING DATE: 1999-12-22			
EARLIER APPLICATION NUMBER: 09/364, 862			
EARLIER FILING DATE: 1999-07-30			
EARLIER APPLICATION NUMBER: 60/125, 974			
EARLIER FILING DATE: 1999-03-24			
EARLIER APPLICATION NUMBER: 60/104, 994			
EARLIER FILING DATE: 1998-10-20			
NUMBER OF SEQ ID NOS: 15			
SOFTWARE: PatentIn Ver. 2.0			
SEQ ID NO 14			
LENGTH: 4999			
TYPE: DNA			
ORGANISM: Artificial Sequence			
FEATURE:			

OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-470-618-14

US-09-470-618-14

Query Match	100.0%;	Score 1001;	DB 4;	Length 4999;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1001; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

OY	1	ATGAAAGATTCGATGATGATGCTGATGCTGAGATGGGACGAAATGAAATGATCATTTCAATTC	60
Db	3600	ATCCAAAGATTTGATGATGATATCTGCTCAGATGGCGACGAATGAAATGATCATTTCAATTC	3659
OY	61	ATTTTCATGAGACATGTTGTTCACTGTAACGAAAAAAGAGAGTATTAATGGCACTGTACA	120
Db	3660	ATTTTCATGAGACATGTTGTTCACTGTAACGAAAAAAGAGAGTATTAATGGCACTGTACA	3719
OY	121	ATCTCTATCCAGGTGTTTTTGGAGACAGGTGAAATGTTACATCCAAAGCTGGAAATTTGGC	180
Db	3720	ATCTCTATCCAGGTGTTTTTGGAGACAGGTGAAATGTTACATCCAAAGCTGGAAATTTGGC	3779
OY	181	GGGTGGAATCCCTTAATTTGAGGAGACATCTCATGCTGGGATAGAGACACTTTTTCGTGT	240
Db	3780	GGGTGGAATCCCTTAATTTGAGGAGACATCTCATGCTGGGATAGAGACACTTTTTCGTGT	3839
OY	241	ACAGCAATTAAGTGTCAAGACTCCCTGGGGAATGGCTTTCTGACACATTAGAGATTTTCAGA	300
Db	3840	ACAGCAATTAAGTGTCAAGACTCCCTGGGGAATGGCTTTCTGACACATTAGAGATTTTCAGA	3899
OY	301	TTACAGCTCAGAGCAATATGAGACAGTGGGGCCCAAGGTGGCCAGACTTCATTAATTCG	360
Db	3900	TTACAGCTCAGAGCAATATGAGACAGTGGGGCCCAAGGTGGCCAGACTTCATTAATTCG	3959
OY	361	GATCAATCAATAGCCTTGAGAGCACCAGAGAGCCCTTTCTTGGATCAAGGTGATCTGTTGG	420
Db	3960	GATCAATCAATAGCCTTGAGAGCACCAGAGAGCCCTTTCTTGGATCAAGGTGATCTGTTGG	4019
OY	421	CACCAATGATTAATTCACGSGCATPAAACCCAGGGTGGCCGTGACAGATTCCTCCAGCCTCT	480
Db	4020	CACCAATGATTAATTCACGSGCATPAAACCCAGGGTGGCCGTGACAGATTCCTCCAGCCTCT	4079
OY	481	ACATCTCTCACTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGCAGACTTAATGAG	540
Db	4080	ACATCTCTCACTTATCATCATGTATAGTCTTGATGGGAAGAAGTGGCAGACTTAATGAG	4139
OY	541	GAAATTCACACTGGAACCTTAATGCTCTCTTTGGCAATGTGATTCATCTGGGATTAAC	600
Db	4140	GAAATTCACACTGGAACCTTAATGCTCTCTTTGGCAATGTGATTCATCTGGGATTAAC	4199
OY	601	ACAATATTTTTAACCCCTCCAAATTAATGCTGCAATACCTCGTTTGGCAACCACCTATTATA	660
Db	4200	ACAATATTTTTAACCCCTCCAAATTAATGCTGCAATACCTCGTTTGGCAACCACCTATTATA	4259
OY	661	GCATTCGCGAGCAGCTTTCGATGAGTGAATGGGCTGTGATTTAAATAGTTGCAAGCATGC	720
Db	4260	GCATTCGCGAGCAGCTTTCGATGAGTGAATGGGCTGTGATTTAAATAGTTGCAAGCATGC	4319
OY	721	CATTGGGAATGGAAGATTAAGCAATATACATGACATGACAGATTACTGCTTCATCTCACTT	780
Db	4320	CATTGGGAATGGAAGATTAAGCAATATACATGACATGACAGATTACTGCTTCATCTCACTT	4379
OY	781	CCAATATGTTTGCACACCTGCTCTCTCAAAAAGCTCGACTTCACTCCAGAGGAGAGTA	840
Db	4380	CCAATATGTTTGCACACCTGCTCTCTCAAAAAGCTCGACTTCACTCCAGAGGAGAGTA	4439
OY	841	ATGCGCTGGAGACCTCAGTGAATATCCAAAAGTGGCTGCAAGGGGACTTCCAGAA	900
Db	4440	ATGCGCTGGAGACCTCAGTGAATATCCAAAAGTGGCTGCAAGGGGACTTCCAGAA	4499
OY	901	CAATGAAGATCAAGAGATTAATCTACTAGGAGATAAATCTCTGTTACAGACATGATG	960
Db	4500	CAATGAAGATCAAGAGATTAATCTACTAGGAGATAAATCTCTGTTACAGACATGATG	4559
OY	961	TGAAGAGTTCTCATCTCCAGCAGTGAATATGGCATCAG	1001

Db 4560 TGAAGAGTTCTCTCATCTCCAGCAGTCAAGATGCCATCATG 4600

## RESULT 4

US-09-364-862-14

Sequence 14, Application US/09364862

Patent No. 6221349

GENERAL INFORMATION:

APPLICANT: Couto, Linda B.

APPLICANT: Colosi, Peter C.

TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII

TITLE OF INVENTION: BY TARGET

TITLE OF INVENTION: CELLS

FILE REFERENCE: AVIGEN-03743

CURRENT APPLICATION NUMBER: US/09/364,862

CURRENT FILING DATE: 1999-07-30

EARLIER APPLICATION NUMBER: 60/125,974

EARLIER FILING DATE: 1999-03-24

EARLIER APPLICATION NUMBER: 60/104,994

EARLIER FILING DATE: 1998-10-20

NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 14

LENGTH: 4999

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Synthetic

US-09-364-862-14

Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAAGATTGATGATCTCTCAGATGGCAGCAATGAACATCCATCTATTC 60  
DB 3600 ATCAAAGATTGATGATCTCTCAGATGGCAGCAATGAACATCCATCTATTC 3659  
QY 61 ATTTCAGTGGACATGTCTCACTGACGAAAAAAGAGAGATATAAATGGCAGTGTACA 120  
DB 3660 ATTTCAGTGGACATGTCTCACTGACGAAAAAAGAGAGATATAAATGGCAGTGTACA 3719  
QY 121 ATCTCTATCCAGATGTTTGGAGACAGTGAAGTGTACACATCCAACTGGAATTTGGC 180  
DB 3720 ATCTCTATCCAGATGTTTGGAGACAGTGAAGTGTACACATCCAACTGGAATTTGGC 3779  
QY 181 GGGTGAATGCTTATGTCAGACATCTCAATGCTGGATGAGCAGCTTTTCTGGTGT 240  
DB 3780 GGGTGAATGCTTATGTCAGACATCTCAATGCTGGATGAGCAGCTTTTCTGGTGT 3839  
QY 241 ACAGCAATTAAGTGTACAGCTCCCTGGGAATGGCTTGTGACACATTAAGATTTTTCAGA 300  
DB 3840 ACAGCAATTAAGTGTACAGCTCCCTGGGAATGGCTTGTGACACATTAAGATTTTTCAGA 3899  
QY 301 TTACAGCTTCAGGACAAATATGAGAGTGGGCCCAAGCTGGCAGACTTATATTTCGG 360  
DB 3900 TTACAGCTTCAGGACAAATATGAGAGTGGGCCCAAGCTGGCAGACTTATATTTCGG 3959  
QY 361 GATCAATCAATGCTGAGACACCAAGAGCCCTTTTCTTGATCAAGGTGATCTGTTGG 420  
DB 3960 GATCAATCAATGCTGAGACACCAAGAGCCCTTTTCTTGATCAAGGTGATCTGTTGG 4019  
QY 421 CACCAATATATTAATGAGGACATCAAGACCCAGGGTCCCGTCAGAAAGTTTCCAGCCCTCT 480  
DB 4020 CACCAATATATTAATGAGGACATCAAGACCCAGGGTCCCGTCAGAAAGTTTCCAGCCCTCT 4079  
QY 481 ACATCTCAGTTTATCATCATGATATAGTCTTGATGGGAAAGAGAGAGAGCTTATGAG 540  
DB 4080 ACATCTCAGTTTATCATCATGATATAGTCTTGATGGGAAAGAGAGAGAGCTTATGAG 4139  
QY 541 GAAATTCACAGGAACTTAATGCTCTTCTTGGCAATGTGATTCATCTGGATTAAC 600  
DB 4140 GAAATTCACAGGAACTTAATGCTCTTCTTGGCAATGTGATTCATCTGGATTAAC 4199

QY 601 ACAATATTTTAAACCCCTCAATTAATGCTGATACATCCCTTGACACCAACATCATATA 660  
DB 4200 ACAATATTTTAAACCCCTCAATTAATGCTGATACATCCCTTGACACCAACATCATATA 4259  
QY 661 GCATTCGACGACCTCTTTCAGATGAGTGGCTGATTTAAATAGTTGACAGATGC 720  
DB 4260 GCATTCGACGACCTCTTTCAGATGAGTGGCTGATTTAAATAGTTGACAGATGC 4319  
QY 721 CATTGGGAATGAGAGATTAACCAATATCATGATGACAGATTTACTGCTTCACTTATTA 780  
DB 4320 CATTGGGAATGAGAGATTAACCAATATCATGATGACAGATTTACTGCTTCACTTATTA 4379  
QY 781 CCAATATGTTGGCAGCCTGCTCTCTCAAAAGCTGCACTTCACTTCACTTCACTTCACTTCA 840  
DB 4380 CCAATATGTTGGCAGCCTGCTCTCTCAAAAGCTGCACTTCACTTCACTTCACTTCACTTCA 4439  
QY 841 ATGCTTGAGACCTCAGTGAATATCAAAAGAGTGGTCAAGTGGAGTGGAGTGGAGTGGAGT 900  
DB 4440 ATGCTTGAGACCTCAGTGAATATCAAAAGAGTGGTCAAGTGGAGTGGAGTGGAGTGGAGT 4499  
QY 901 CAATGAAGTACAGAGATTAATCTCAGGAGTAAATCTTCTTACAGATGTATG 960  
DB 4500 CAATGAAGTACAGAGATTAATCTCAGGAGTAAATCTTCTTACAGATGTATG 4559  
QY 961 TGAAGAGTTCTCTCATCTCCAGCAGTCAAGTGGCAGTCAAG 1001  
DB 4560 TGAAGAGTTCTCTCATCTCCAGCAGTCAAGTGGCAGTCAAG 4600

## RESULT 5

US-08-882-083-1

Sequence 1, Application US/08882083

Patent No. 5869292

GENERAL INFORMATION:

APPLICANT: VOORBERG, Johannes J.

TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/882,083

FILING DATE:

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/558,107

FILING DATE: 13-NOV-1995

ATTORNEY/AGENT INFORMATION:

NAME: ISACSON, John P.

REGISTRATION NUMBER: 33,715

REFERENCE/DOCKET NUMBER: 30472/212

TELEPHONE: (202)672-5300

TELEFAX: (202)672-5399

TELEX: 904136

INFORMATION FOR SEQ. ID NO. 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 5035 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

FEATURE:

NAME/KEY: CDS

LOCATION: 35..5017  
US-08-882-083-1

Query Match 100.0%; Score 1001; DB 2; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGAGATTCGATGATCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 60  
DB 3831 ATCAAGAGATTCGATGATCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 3890  
QY 61 ATTTCAAGATGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 120  
DB 3891 ATTTCAAGATGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 3950  
QY 121 ATCTCTATCCAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 180  
DB 3951 ATCTCTATCCAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4010  
QY 181 GGGTGAATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 240  
DB 4011 GGGTGAATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4070  
QY 241 ACAGCAATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 300  
DB 4071 ACAGCAATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 4130  
QY 301 TTACAGCTTCAGGACATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 360  
DB 4131 TTACAGCTTCAGGACATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 4190  
QY 361 GATCAATCAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 420  
DB 4191 GATCAATCAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4250  
QY 421 CACCAATGATTAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 480  
DB 4251 CACCAATGATTAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4910  
QY 481 ACATCTCTAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 540  
DB 4311 ACATCTCTAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4370  
QY 541 GAAATTCACATGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 600  
DB 4371 GAAATTCACATGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4430  
QY 601 ACAATATTTTAACTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 660  
DB 4431 ACAATATTTTAACTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4490  
QY 661 GCATTCGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 720  
DB 4491 GCATTCGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4550  
QY 721 CATTGGAATGAGATTAAGATTAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 780  
DB 4551 CATTGGAATGAGATTAAGATTAATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4610  
QY 781 CCAATATGTTTGAAGTGTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 840  
DB 4611 CCAATATGTTTGAAGTGTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4670  
QY 841 ATGCTGAGAGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 900  
DB 4671 ATGCTGAGAGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4730  
QY 901 CAATGAAGTGTGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 960  
DB 4731 CAATGAAGTGTGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4790  
QY 961 TGAAGGATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 1001

DB 4791 TGAAGGATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4831

RESULT 6

US-08-558-107-1  
Sequence 1, Application US/08558107  
Patent No. 5910481

GENERAL INFORMATION:

APPLICANT: VOORBERG, Johannes J.  
TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington

STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/558,107

FILING DATE: 13-NOV-1995  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399

TELEX: 904136

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
LENGTH: 5035 base pairs  
TYPE: nucleic acid

STRANDEDNESS: single  
TOPOLOGY: linear

FEATURE:  
NAME/KEY: CDS  
LOCATION: 35..5017

US-08-558-107-1

Query Match 100.0%; Score 1001; DB 2; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGAGATTCGATGATCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 60  
DB 3831 ATCAAGAGATTCGATGATCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 3890  
QY 61 ATTTCAAGATGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 120  
DB 3891 ATTTCAAGATGACATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 3950  
QY 121 ATCTCTATCCAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 180  
DB 3951 ATCTCTATCCAGGATGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4010  
QY 181 GGGTGAATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 240  
DB 4011 GGGTGAATGCTGCTGCTGACATGGGACACAAATGAAACATCATCTATTTC 4070  
QY 241 ACAGCAATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 300  
DB 4071 ACAGCAATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 4130  
QY 301 TTACAGCTTCAGGACATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 360  
DB 4131 TTACAGCTTCAGGACATTAAGTGTGACATGGGACACAAATGAAACATCATCTATTTC 4190

361 GATCAATCAATGCGCTGGAGGACCAAGAGGCCCTTTCTTGATCAAGGTGATCTGTTGG 420  
DB 4191 GATCAATCAATGCGCTGGAGGACCAAGAGGCCCTTTCTTGATCAAGGTGATCTGTTGG 4250  
QY 421 CACCAATGATTATTCACGGCATCAAGACCAGGGTGGCCCTGAGAAATTCCTCCAGCCCTC 480  
DB 4251 CACCAATGATTATTCACGGCATCAAGACCAGGGTGGCCCTGAGAAATTCCTCCAGCCCTC 4310  
QY 481 ACATCTCTCAGTTTATATCATGTATGTCTTGATGGGAAGAAAGTGGCAGACTTATCGAG 540  
DB 4311 ACATCTCTCAGTTTATATCATGTATGTCTTGATGGGAAGAAAGTGGCAGACTTATCGAG 4370  
QY 541 GAAATTCACCTGGAACTTATGATGCTCTTTGGCAATGATGATCATCTGGATTAAC 600  
DB 4371 GAAATTCACCTGGAACTTATGATGCTCTTTGGCAATGATGATCATCTGGATTAAC 4430  
QY 601 ACAATATTTTAAACCTTCAATTAATGCTGATACATCCCTTGGCAACCAACTCATTTATA 660  
DB 4431 ACAATATTTTAAACCTTCAATTAATGCTGATACATCCCTTGGCAACCAACTCATTTATA 4490  
QY 661 GCATTCGACACTCTTCTGATGAGTGTGATGGCTGTGATTTAAATAGTTGACAGCATGC 720  
DB 4491 GCATTCGACACTCTTCTGATGAGTGTGATGGCTGTGATTTAAATAGTTGACAGCATGC 4550  
QY 721 CATGGGAATGGAGATGAAGCAATATACATGACAGATGATGCTGCTTCTTCTTCTTCTT 780  
DB 4551 CATGGGAATGGAGATGAAGCAATATACATGACAGATGATGCTGCTTCTTCTTCTTCTT 4610  
QY 781 CCAATATGTTTGGCACCCTGCTCTCTTCAAAAGCTGACCTTCACTCAAGGAGAGATA 840  
DB 4611 CCAATATGTTTGGCACCCTGCTCTCTTCAAAAGCTGACCTTCACTCAAGGAGAGATA 4670  
QY 841 ATGCTTGGAACTCTGAGGTAAATATATCAAAAGAGTGGCTGCAAGTGGACTTCCAAAGA 900  
DB 4671 ATGCTTGGAACTCTGAGGTAAATATATCAAAAGAGTGGCTGCAAGTGGACTTCCAAAGA 4730  
QY 901 CAATGAAGTCAAGAGAGTAACTACTCAGGAGTAAATCTGCTTACAGCATGTATG 960  
DB 4731 CAATGAAGTCAAGAGAGTAACTACTCAGGAGTAAATCTGCTTACAGCATGTATG 4790  
QY 961 TGAAGGAGTTCCTCATCTCAGAGTCAAGATGAGCCATCAG 1001  
DB 4791 TGAAGGAGTTCCTCATCTCAGAGTCAAGATGAGCCATCAG 4831

RESULT 7  
US-09-243-539-1  
; Sequence 1, Application US/09243539  
; Patent No. 6130203  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; City: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/243,539  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558,107  
; FILING DATE: 13-NOV-1995

ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33,715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5035 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 35..5017  
; US-09-243-539-1

Query Match 100.0%; Score 1001; DB 3; Length 5035;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATCAAGATTCGATGATCTGCTCAGCATGGCAGCAATGAAACATCCATCTATTTC 60  
DB 3831 ATCAAGATTCGATGATCTGCTCAGCATGGCAGCAATGAAACATCCATCTATTTC 3890  
QY 61 ATTTCAGTGGACATGTCTTCTACGAAAAAAGAGAGATTAATATGCTGCTTCA 120  
DB 3891 ATTTCAGTGGACATGTCTTCTACGAAAAAAGAGAGATTAATATGCTGCTTCA 3950  
QY 121 ATCTCATCAGTGTCTTTTGGACAGTGAATGTATCCATCCAAAGCTGGAATTTGGC 180  
DB 3951 ATCTCATCAGTGTCTTTTGGACAGTGAATGTATCCATCCAAAGCTGGAATTTGGC 4010  
QY 181 GGGTGAATGCGCTTATTTGGCGAGCATCTACATGCTGGAGTGAAGACACTTTTCTGTGT 240  
DB 4011 GGGTGAATGCGCTTATTTGGCGAGCATCTACATGCTGGAGTGAAGACACTTTTCTGTGT 4070  
QY 241 ACAGCAATTAAGTGTAGAGTCTCCCTGGGAATGGCTTCTGACACATTTAGAAATTTTCAGA 300  
DB 4071 ACAGCAATTAAGTGTAGAGTCTCCCTGGGAATGGCTTCTGACACATTTAGAAATTTTCAGA 4130  
QY 301 TTACAGCTTCAGGAATTAATGAGACAGTGGGCCCAAACTGGCCAGACTTATTATTC 360  
DB 4131 TTACAGCTTCAGGAATTAATGAGACAGTGGGCCCAAACTGGCCAGACTTATTATTC 4190  
QY 361 GATCAATCAATGCGCTGGAGGACCAAGAGGCCCTTTCTTGATCAAGGTGATCTGTTGG 420  
DB 4191 GATCAATCAATGCGCTGGAGGACCAAGAGGCCCTTTCTTGATCAAGGTGATCTGTTGG 4250  
QY 421 CACCAATGATTATTCACGGCATCAAGACCAGGGTGGCCCTGAGAAATTCCTCCAGCCCTC 480  
DB 4251 CACCAATGATTATTCACGGCATCAAGACCAGGGTGGCCCTGAGAAATTCCTCCAGCCCTC 4310  
QY 481 ACATCTCTCAGTTTATATCATGTATGTCTTGATGGGAAGAAAGTGGCAGACTTATCGAG 540  
DB 4311 ACATCTCTCAGTTTATATCATGTATGTCTTGATGGGAAGAAAGTGGCAGACTTATCGAG 4370  
QY 541 GAAATTCACCTGGAACTTATGATGCTCTTTGGCAATGATGATCATCTGGATTAAC 600  
DB 4371 GAAATTCACCTGGAACTTATGATGCTCTTTGGCAATGATGATCATCTGGATTAAC 4430  
QY 601 ACAATATTTTAAACCTTCAATTAATGCTGATACATCCCTTGGCAACCAACTCATTTATA 660  
DB 4431 ACAATATTTTAAACCTTCAATTAATGCTGATACATCCCTTGGCAACCAACTCATTTATA 4490  
QY 661 GCATTCGACACTCTTCTGATGAGTGTGATGGCTGTGATTTAAATAGTTGACAGCATGC 720  
DB 4491 GCATTCGACACTCTTCTGATGAGTGTGATGGCTGTGATTTAAATAGTTGACAGCATGC 4550  
QY 721 CATGGGAATGGAGATGAAGCAATATACATGACAGATGATGCTGCTTCTTCTTCTTCTT 780



Db 4551 CATTGGAGATGAGAGTAAGCAATATACAGATGACAGATTACTGCTTACTTACTTAA 4610  
QY 781 CCAATATGTTGGCCACCTGCTCTTCAAAAGCTGACTTCACTCCAAAGGAGAGTA 840  
Db 4611 CCAATATGTTGGCCACCTGCTCTTCAAAAGCTGACTTCACTCCAAAGGAGAGTA 4670  
QY 841 ATGCTGAGAGCTCAGAGTAATATCAAAAGAGTGGCTGCAAGGAGACTTCAGAGA 900  
Db 4671 ATGCTGAGAGCTCAGAGTAATATCAAAAGAGTGGCTGCAAGGAGACTTCAGAGA 4730  
QY 901 CAATGAAGTCACAGAGTAAGTAAGTCAAGGAGTAATCTGCTTACCAGATGTATG 960  
Db 4731 CAATGAAGTCACAGAGTAAGTAAGTCAAGGAGTAATCTGCTTACCAGATGTATG 4790  
QY 961 TGAAGGAGTTCCTATCTCCAGAGTAAGTAATGGCCATCAG 1001  
Db 4791 TGAAGGAGTTCCTATCTCCAGAGTAAGTAATGGCCATCAG 4831

## RESULT 8

US-08-121-202-1  
; Sequence 1, Application US/08121202  
; Patent No. 5563045  
; GENERAL INFORMATION:  
; APPLICANT: Pittman, Debra  
; APPLICANT: Rehmetulla, Alnawaz  
; APPLICANT: Wozney, John M.  
; APPLICANT: Kautman, Randal J.  
; TITLE OF INVENTION: CHIMERIC PROCOAGULANT PROTEINS  
; NUMBER OF SEQUENCES: 27  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Legal Affairs, Genetics Institute, Inc.  
; STREET: 87 Cambridgepark Drive  
; CITY: Cambridge  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02140  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/121,202  
; FILING DATE: 14-SEP-1993  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Melkert, M. C.  
; REGISTRATION NUMBER: 31,544  
; REFERENCE/DOCKET NUMBER: GI 5195A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 876-1210 X8574  
; TELEFAX: (617) 876-5851  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 7056 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHEetical: NO  
; ANTI-SENSE: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..7053  
US-08-121-202-1

Query Match 100.0%; Score 1001; DB 1; Length 7056;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1001; Conservative 0; Mismatches 0; Gaps 0;  
QY 1 ATCAAGAGTTCGATGCTGCTCAGAGTGGAGCAATGAAGTAATCTCATCTTCTTC 60  
|||||

Db 5867 ATCAAGAGTTCGATGCTGCTCAGAGTGGAGCAATGAAGTAATCTCATCTTCTTC 5926  
QY 61 ATTTAGTGGAGATGCTTCACTAGCAAAAGAGAGATTAATATGGACGTGCA 120  
Db 5927 ATTTAGTGGAGATGCTTCACTAGCAAAAGAGAGATTAATATGGACGTGCA 5986  
QY 121 ATCTATGCTCAGAGTGTGTTGAGACAGTGAATGTACATCCAAAGCTGGAATTTGGC 180  
Db 5987 ATCTATGCTCAGAGTGTGTTGAGACAGTGAATGTACATCCAAAGCTGGAATTTGGC 6046  
QY 181 GGGTGAATGCTTATTTGCGAGCATCTACATGCTGGATGAGACACTTTTCGGTGT 240  
Db 6047 GGGTGAATGCTTATTTGCGAGCATCTACATGCTGGATGAGACACTTTTCGGTGT 6106  
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QY 301 TTACAGCTTCAGAGCAATATGAGACAGTGGGCCCAAAAGCTGCGACACTTCAATATTC 360  
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QY 601 ACAATATTTTAACTCCCAATATATGCTGATACATCCGTTTGGACCCCACTCATTA 660  
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QY 781 CCAATATGTTGGCCACCTGCTCTTCAAAAGCTGACTTCACTCCAAAGGAGAGTA 840  
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QY 841 ATGCTGAGAGCTCAGAGTAATATCAAAAGAGTGGCTGCAAGGAGACTTCAGAGA 900  
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RESULT 9  
US-08-366-851A-1  
; Sequence 1, Application US/08366851A  
; Patent No. 5681746  
; GENERAL INFORMATION:  
; APPLICANT: Bodner, Mordechai

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APPLICANT: De Polo, Nicolas J.
APPLICANT: Hsu, David Chi-Tang
APPLICANT: Chang, Steven
TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESS: Viagene, Inc.
STREET: 1105 Roselle Street
CITY: San Diego
STATE: California
COUNTRY: U.S.A.
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/366, 851A
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Chambers, Daniel M.
REGISTRATION NUMBER: 34,561
REFERENCE/DOCKET NUMBER: 930049.438
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 452-1288
TELEFAX: (619) 452-2616
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 8967 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 110..7165
US-08-366-851A-1

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Query Match 100.0%; Score 1001; DB 1; Length 8967;

Best Local Similarity 100.0%; Pred. No. 0; Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 6036 ATTTCAGTGACATGTGTCTGCTGACGACAAAAAGAGAGATATAAATGGCAGCTGACA 6095
QY 121 ATCTCTATCCAGAGTGTGTTGAGACAGTGAAGTGTACATCCAAAGCTGGAATTTGGC 180
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DB 6336 GATCAATCAATGCTTGAGACACCAAGAGCCCTTTCTTTGGATCAAGGTGATGTTGG 6395
QY 421 CACCAATATATTATTCAGGCGCATCAAGACCCAGGGTGCCCGTCAGAGATTCTCCAGCCTCT 480

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DB 6396 CACCAATATATTATTCAGGCGCATCAAGACCCAGGGTGCCCGTCAGAGATTCTCCAGCCTCT 6455
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DB 6636 GCATTCGACAGCATCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 6695
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DB 6756 CCAATATGTTTGGCCACCTGCTGCTCTTCAAAAGCTCGACTTCACTTCAAGGAGAGAGTA 6815
QY 841 ATGCTTGACAGCATCTGATGATATATCAAAAGAGTGGCTGCAAGTGGATCTTCCAGAGA 900
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QY 901 CAATGAAGTACAGAGTAACTATCTCAGGAGAGTAAATCTGCTTACAGATGATGATG 960
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DB 6936 TGAAGAGTTCCTCATCTCCAGCAGCATGCAAGATGGCCATCAG 6976

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RESULT 10
US-07-864-004B-3
Sequence 3, Application US/07864004B
Patent No. 5364771
GENERAL INFORMATION:
APPLICANT: Lollar, John S.
TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kilpatrick & Cody
STREET: 1100 Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: US
ZIP: 30309
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/864, 004B
FILING DATE: 07 APRIL 1992
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: EMU106
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-815-6508
TELEFAX: 404-815-6555
INFORMATION FOR SEQ ID NO: 3:

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NAME/KEY: misc-feature (Domain Structure)  
 LOCATION: 5001...7053  
 OTHER INFORMATION: /note="Equivalent to the A3-C1-C2  
 OTHER INFORMATION: domain"  
 FEATURE:  
 NAME/KEY: misc-feature (Domain Structure)  
 LOCATION: 1...2277  
 OTHER INFORMATION: /note="Equivalent to the A1-A2  
 OTHER INFORMATION: domain"  
 US-08-251-937A-3

Query Match 100.0%; Score 1001; DB 1; Length 9009;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTGCGATGATCTCTGAGATGGGCGAGCATGGAACATCCATTCATTC 60  
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 QY 61 ATTCAGTGAGACATGTTCTACTGTACGAAAAAAGAGAGATATAAATGCGACTGTACA 120  
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 QY 121 ATCTCATGCGAGTCTTTTGGAGACGTGGAATGTTACCATCCAAAGCTGGAATTTGGC 180  
 DB 6137 ATCTCATGCGAGTCTTTTGGAGACGTGGAATGTTACCATCCAAAGCTGGAATTTGGC 6196  
 QY 181 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGGTGT 240  
 DB 6197 GGGTGGAAATGCTTATTTGGCGAGCATCTACATGCTGGAGTGAACACTTTTCTGGTGT 6256  
 QY 241 ACAGCAATTAAGTGTCACTGCTCCCTGGGAATGCTTGGACACATTAAGATTTTCAGA 300  
 DB 6257 ACAGCAATTAAGTGTCACTGCTCCCTGGGAATGCTTGGACACATTAAGATTTTCAGA 6316  
 QY 301 TTACAGCTTCAGGACAAATTAAGTGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 360  
 DB 6317 TTACAGCTTCAGGACAAATTAAGTGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 6376  
 QY 361 GATCAATCAATGCTGGAGACACCAAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 420  
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 DB 6437 CACCAATGATTTATTCAGGCGATCAAGACCCAGGCGGCGGCGGCGGCGGCGGCGG 6496  
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 DB 6557 GAAATTCGACTGGAACCTTAATGCTCTTCTTGGCAATGTGATTCATCTGGATTAAC 6616  
 QY 601 ACAATATTTTAACTCCCAATTAATGCTCTTCTTGGCAATGTGATTCATCTGGATTAAC 660  
 DB 6617 ACAATATTTTAACTCCCAATTAATGCTCTTCTTGGCAATGTGATTCATCTGGATTAAC 6676  
 QY 661 GCATTCGAGACACTTCTGATGAGTGGGCTGTGATTTAAATGTTGCGAGCATGC 720  
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 QY 721 CATTGGGAATGAGAGTAAGCAATATGATGACAGATTAAGTCTTCACTCACTTTA 780  
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RESULT 12  
 US-08-212-133A-1  
 Sequence 1, Application US/08212133A  
 Patent No. 5653060  
 GENERAL INFORMATION:  
 APPLICANT: Lollar, John S.  
 APPLICANT: Runge, Marschall S.  
 TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
 NUMBER OF SEQUENCES: 12  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kilpatrick & Cody  
 STREET: 100 Peachtree Street  
 CITY: Atlanta  
 STATE: Georgia  
 COUNTRY: US  
 ZIP: 30303  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/212,133A  
 FILING DATE: March 11, 1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/864,004  
 FILING DATE: 07-Apr-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Pabst, Patrea L.  
 REGISTRATION NUMBER: 31,284  
 REFERENCE/DOCKET NUMBER: EMU/76677  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 404-572-6508  
 TELEFAX: 404-572-6555  
 INFORMATION FOR SEQ. ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 9009 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapien  
 TISSUE TYPE: Liver  
 FEATURE:  
 NAME/KEY: misc-feature (Domain Structure)  
 LOCATION: 5125...7053  
 OTHER INFORMATION: /note="Equivalent to the A3-C1-C2  
 OTHER INFORMATION: domain"  
 FEATURE:  
 NAME/KEY: misc-feature (Domain Structure)  
 LOCATION: 1...2277  
 OTHER INFORMATION: /note="Equivalent to the A1-A2 domain."  
 NAME/KEY: Domain  
 LOCATION: 1..2277  
 OTHER INFORMATION: /note="cdna encoding human factor  
 OTHER INFORMATION: VIII."  
 US-08-212-133A-1



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Db 6617 ACAATATTTTAACTCCCAATATATGCTCATATCCGTTTGGACCACTCATTTATA 6676
QY 661 GCATTGCGAGCACTCTTGGCAGTGGATGATGGGCTGTGATTTAAATAGTTGCGACACTGC 720
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Db 6977 TGAAGAGATGCTCTATCTTCAGAGCACTCAAGATGCCATCAG 7017

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# RESULT 14

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; Sequence 1, Application US/08670707A
; Patent No. 5859204
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle Suite 201
; CITY: Boulder
; STATE: Colorado

```

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? COUNTRY: USA
? ZIP: 80303
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent In Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/670,707A
? FILING DATE: 26-JUN-1996
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: WO PCT/US94/13200
? FILING DATE: 15-NOV-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/212,133
? FILING DATE: 11-MAR-1994
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/864,004
? FILING DATE: 07-APR-1992
? ATTORNEY/AGENT INFORMATION:
? NAME: Greenlee, Lorance L.
? REGISTRATION NUMBER: 27,894
? REFERENCE/DOCKET NUMBER: 75-95F
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 303/499-8080
? TELEFAX: 303/499-8089
? INFORMATION FOR SEQ ID NO: 1:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 9009 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: not relevant
? MOLECULE TYPE: cDNA to mRNA
? HYPOTHEICAL: NO
? ANTI-SENSE: NO
? ORIGINAL SOURCE:
? ORGANISM: Homo sapiens
? TISSUE TYPE: Liver
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: 1..2277
? OTHER INFORMATION: /product= "Domain Structure"
? OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain"
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: 1..2277
? OTHER INFORMATION: /product= "Domain"
? OTHER INFORMATION: /note= "CDNA encoding human factorVIII"
; US-08-670-707A-1
Query Match 100.0%; Score 1001; DB 2; Length 9009;
Best Local Similarity 100.0%; Pred No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATCAAGAGATTGATGGTATCTGCTCAGATGGGAGCAATGAATCAATTCATATTC 60
Db 6017 ATCAAGAGATTGATGGTATCTGCTCAGATGGGAGCAATGAATCAATTCATATTC 6076
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Db 6197 GGGTGAATGCTTATTTGCGGAGATCTACATGCTGGATAGACACATTTTCTGGGT 6256
OY 241 ACAGCAATTAAGTGTAGAGCTCCCGGGAGATGCTTGGACACATTTGAGATTTTTCAGA 300
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Db 6317 TTACAGCTTCAGAGACATATGAGACAGTGGGCCCAAGCTGGCCAGACTTATTTTCGG 6376
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Db 6377 GATCAATCAATGCTTGGAGACACCAAGAGCCCTTTTCTGGATCAAGTGTGATCTGTGG 6436
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Db 6917 CAATGAATGACAGAGATTAATCTCAGAGGATTAATCTGCTTACACAGATGATG 6976
OY 961 TGAAGAGTTCCTCATCTCCAGAGATCAAGATGGCCATGAG 1001
Db 6977 TGAAGAGTTCCTCATCTCCAGAGATCAAGATGGCCATGAG 7017

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RESULT 15
US-09-037-601-1
; Sequence 1, Application US/09037601
; Patent No. 6180371
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/037,601
FILING DATE: 26-JUN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US94/13200
FILING DATE: 15-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/212,133
FILING DATE: 11-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/864,004
FILING DATE: 07-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 75-95F
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303/499-8080
TELEFAX: 303/499-8089
INFORMATION FOR SEQ. ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9009 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: not relevant
MOLECULE TYPE: cDNA to mRNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Liver
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5125..7053
OTHER INFORMATION: /product= "Domain Structure"
OTHER INFORMATION: /note= "Equivalent to the A3-C1-C2 domain"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..2277
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US-09-037-601-1
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 6017 ATCAAGGATTCGATGATCTGCTCAGACATGGCGAGCAATGAAGAAATTCATCTATTC 6076
OY 61 ATTTCAGTGCATGCTGCTCACTGTAGCAAAAAAGAGACTATATAATGACACTGTACA 120
Db 6077 ATTTCAGTGCATGCTGCTCACTGTAGCAAAAAAGAGACTATATAATGACACTGTACA 6136
OY 121 ATCTATCCAGAGTGTGTTTGAAGACAGTGAATGTTACATCCAAAGCTGGAATTTGGC 180
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OY 181 GGGTGAATGCTTATTTGGCGAGATCTACATGCTGGATGAGACACTTTTCTGGTGT 240
Db 6197 GGGTGAATGCTTATTTGGCGAGATCTACATGCTGGATGAGACACTTTTCTGGTGT 6256
OY 241 ACAGCAATTAAGTGTAGAGCTCCCGGGAGATGCTTGGACACATTTGAGATTTTTCAGA 300

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Db 6257 ACAGCAATTAAGTGCACACACCTCCCTGGGAATGGCTCTCGACACATTAAGATTTCAGA 6316
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QY 361 GATCAATCAATGCGCTGAGACCAAGAGGCCCTTTCTTGATCAAGGTGATCTGTGG 420
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QY 541 GAAATTCACCTGAGAACCTTAATGCTCTTTGGCAATGATGATCTGGGATTAAC 600
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Search completed: January 5, 2003, 02:15:46  
Job time : 229 secs



GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 23:31:50 ; Search time 54 Seconds  
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Title: US-09-740-211-14\_COPY\_3600\_4600

Perfect score: 1001  
Sequence: 1 atcaagaatgcgtatgtat.....gcagtaagaatgcctacag 1001

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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2	1001	100.0	4999	9 US-10-007-968-14	Sequence 14, Appl
3	1001	100.0	4999	10 US-09-740-211-14	Sequence 1, Appl
4	1001	100.0	7944	12 US-10-095-718-1	Sequence 1, Appl
5	1001	100.0	9009	9 US-09-957-641-1	Sequence 13, Appl
6	1001	100.0	11933	9 US-10-007-968-13	Sequence 13, Appl
7	1001	100.0	11933	10 US-09-740-211-13	Sequence 3, Appl
8	841.6	84.1	7914	12 US-10-095-718-3	Sequence 2275, Ap
9	198.2	19.8	6909	10 US-09-880-107-2275	Sequence 167, App
10	92.4	9.2	4599	9 US-09-974-298-167	Sequence 12, Appl
11	76	7.6	2145	9 US-10-003-132-12	Sequence 3020, Ap
12	72.4	7.2	1270	10 US-09-880-107-3020	Sequence 13850, A
13	69.2	6.9	357	10 US-09-960-352-13850	Sequence 8113, Ap
14	61.2	6.1	389	10 US-09-960-352-8113	Sequence 3109, Ap
15	61	6.1	367	10 US-09-960-352-1109	Sequence 2857, Ap
16	61	6.1	374	10 US-09-960-352-2857	Sequence 46, Appl
17	60.6	6.1	406	9 US-10-042-125A-46	Sequence 349, App
18	60.6	6.1	429	9 US-10-046-935-349	Sequence 349, App
19	60.6	6.1	429	9 US-09-878-178-349	Sequence 349, App

20	59.4	5.9	363	10 US-09-960-352-12595	Sequence 12595, A
21	57.6	5.8	970	10 US-09-215-450-14	Sequence 14, Appl
22	57.4	5.7	385	10 US-09-960-352-7640	Sequence 7640, Ap
23	57	5.7	3321	9 US-09-970-966-175	Sequence 175, App
24	57	5.7	3321	10 US-09-825-294-175	Sequence 175, App
25	57	5.7	3321	10 US-09-880-107-2253	Sequence 2253, Ap
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27	52	5.2	379	10 US-09-960-352-12844	Sequence 12844, A
28	48.2	4.8	3151	9 US-10-003-132-1	Sequence 1, Appl
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30	42.4	4.2	3700	10 US-09-911-800A-1539	Sequence 1539, Ap
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32	39.4	3.9	1329	10 US-09-808-701-5	Sequence 5, Appl
33	38.6	3.9	45	9 US-09-957-641-10	Sequence 10, Appl
34	38.6	3.9	45	9 US-09-957-641-18	Sequence 18, Appl
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42	37.4	3.7	39	9 US-09-957-641-12	Sequence 5, Appl
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44	37.4	3.7	39	9 US-09-957-641-13	Sequence 13, Appl
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## ALIGNMENTS

RESULT 1  
US-09-150-811-7  
GENERAL INFORMATION:  
APPLICANT: Connelly, Sheila  
Smith, Theodore  
Kaleko, Michael  
TITLE OF INVENTION: Adenoviral Vectors for  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Giffillan,  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/150, 811  
FILING DATE: 10-Sep-1998  
CLASSIFICATION: <unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/484, 891  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: 08/218, 335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074, 920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24,025  
REFERENCE/DOCKET NUMBER: 271010-440  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
US-09-150-811-7  
Query Match 100.0%; Score 1001; DB 10; Length 4629;





PRIOR APPLICATION NUMBER: 60/158,780  
PRIOR FILING DATE: 1999-10-12  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 7944  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Plasmid pBL26 encoding Homo sapiens BDD FVIII  
NAME/KEY: CDS  
LOCATION: (420)...(4835)  
US-10-095-718-1

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RESULT 5  
US-09-957-641-1  
Sequence 1, Application US/09957641  
Publication No. US20020182670A1  
GENERAL INFORMATION:

APPLICANT: Emory University  
TITLE OF INVENTION: MODIFIED FACTOR VIII  
FILE REFERENCE: 75-00  
CURRENT APPLICATION NUMBER: US/09/957,641  
CURRENT FILING DATE: 2001-09-16  
PRIOR APPLICATION NUMBER: US 60/234047  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: US 60/236460  
PRIOR FILING DATE: 2000-09-29  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 9009  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (208)...(7203)  
US-09-957-641-1

Query Match 100.0%; Score 1001; DB 9; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 6.7e-295;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCAAGATTCGATGATCTCTCAGATGGGAGCAATGCAATCCATTCATTC 60  
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RESULT 6  
 US-10-007-968-13  
 ; Sequence 13, Application US/10007968  
 ; Patent No. US20020159977A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Coulo, Linda B.  
 ; APPLICANT: Colosi, Peter C.  
 ; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
 ; FILE REFERENCE: Avigen-04082  
 ; CURRENT APPLICATION NUMBER: US/10/007, 968  
 ; PRIOR FILING DATE: 2001-12-13  
 ; PRIOR APPLICATION NUMBER: 09/740, 211  
 ; PRIOR FILING DATE: 2000-12-18  
 ; PRIOR APPLICATION NUMBER: 60/125, 974  
 ; PRIOR FILING DATE: 1999-03-24  
 ; PRIOR APPLICATION NUMBER: 60/104, 994  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 13  
 ; LENGTH: 11933  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 US-10-007-968-13

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 Qy 721 CATTGGGAATGGAGATGAAGCAATATCAGATGACAGATTTACTGCTTCACTACTTTA 780  
 Db 4295 CATTGGGAATGGAGATGAAGCAATATCAGATGACAGATTTACTGCTTCACTACTTTA 4354  
 Qy 781 CCAATATGTTTGGCAGCTGCTCTCTTCAAAAGCTGCACTTCACTCCAGGAGAGTA 840  
 Db 4355 CCAATATGTTTGGCAGCTGCTCTCTTCAAAAGCTGCACTTCACTCCAGGAGAGTA 4414  
 Qy 841 ATGCTCGAGAGCTCAGGTGATATATCAAAAGAGTGGCTGCAAGTGGCACTTCCAGAGA 900  
 Db 4415 ATGCTCGAGAGCTCAGGTGATATATCAAAAGAGTGGCTGCAAGTGGCACTTCCAGAGA 4474  
 Qy 901 CAAATGAAGTCAAGAGTAACTACTCAGGAGTAAATCTGCTTACCATGATGATG 960  
 Db 4475 CAAATGAAGTCAAGAGTAACTACTCAGGAGTAAATCTGCTTACCATGATGATG 4534  
 Qy 961 TGAAGGAGTTCCTCATCTCCAGAGTCAAGATGGCATCAG 1001  
 Db 4535 TGAAGGAGTTCCTCATCTCCAGAGTCAAGATGGCATCAG 4575

RESULT 7  
 US-09-740-211-13  
 ; Sequence 13, Application US/09740211  
 ; Patent No. US20010010815A1  
 ; GENERAL INFORMATION:



QY	181	GGGGGAATCCCTTATGGGAGACATCTACATGCTGGGATGAGACATCTTTCTGGTGT	240
Db	3721	GGATGATGACCTTATTCGGGAGACCTCTCAAGCCGGGATGAGCACTGTCTTCTGGTGT	3780
QY	241	ACAGCAATTAAGTCTCAGACACTCCCTGGGGAATGGCTTCTGGAACATTAGAGATTTTCAGA	300
Db	3781	ACAGCAAGAAGTGTCAAGACTCCACTGGGATGGCTTCCGGAGACATTTAGAAATTTTCAGA	3840
QY	301	TTACAGCTTACAGACAAATATGACATGTGGGGCCCAAGCTGGCCAGACTTATATATCCG	360
Db	3841	TTACAGCTTACAGCAATATGACATGTGGGGCCCAAGCTGGCCAGACTTATATATTCG	3900
QY	361	GATCAATCAATAGCTGGAGGACCAAGAGACCCTTTTCTTGGATCAAGGTGATCTGTGG	420
Db	3901	GATCAATCAATAGCTGGAGGACCAAGAGATCCCTTTTCTCGATCAAGGTGATCTGTGG	3960
QY	421	CACCAATGATTTATTCACGGCATCAGACCAGGGGTGCCGTGACAGATTTCTCAGCCTCT	480
Db	3961	CACCAATGATTTATTCACGGCATATCACCAGGGGGCCCGCCAGAAAGTTCTTCACGCTCT	4020
QY	481	ACATCTCTCAGTTATCATCATCATGATATAGTCTGATGGGGAAGAAGGGAGACTTATCGAG	540
Db	4021	ACGTCCTCAGTTATCATCATCATATATCAAGTCTGATGTCACAAAGTGGACAGTTACCGAG	4080
QY	541	GAATTTCCACTGGAACCTTATAGTCTTCTTTGGCAATGTGATTCATCTGGGATTAAC	600
Db	4081	GAATTTCCACGGGACCTTATAGTCTTCTTTGGCAAGCTGATTCATCTGGGATTAAC	4140
QY	601	ACAAATATTTTAAACCCGCAATATATGTCGCAATACATCCGTTGGACCCAACTCATATA	660
Db	4141	ACAAATATTTTAAACCCGCAATATATGCTCAGTACATCCGTTGGACCCAACTCATACA	4200
QY	661	GCATTCGAGCACTCTTCGATGGAAGTGTAGTGGGCTGTGATTTTAAATAGTTGCAGCATGC	720
Db	4201	GCATTCGAGCACTCTTCGATGAGCTCTTGGGCTGTGACTTTCAAAGTTGCAGCATGC	4260
QY	721	CATTGGGAATGGAGATTAAGCAATATCAGATGTCACAAATTTACCTCTCATCTCATCTTA	780
Db	4261	CGCTGGGAGATGAGAGATTAAGCAATATCACAATCTCAGATCACTGCTGCTCATCTCA	4320
QY	781	CCAAATATTTTGGCACACCTGGTCTCTCTTCAAAGAGCTGCATTTACCTCAAGGAGAGTA	840
Db	4321	GCAGATATCTTGGCACACTTGGTCTCTTCCCAAGCCGGGCTGCACCTGCAGGGCAGAGACTA	4380
QY	841	ATGCGTGGAGACTCTCAGGTGAATATATTCACAAAGAGTGGCTGCAGATGACTTCCAGANA	900
Db	4381	ATGCGTGGAGACTCTCAGGCAAAATATACCCAAAGAGTGGCTGCAGATGACTTCCGAGANA	4440
QY	901	CAATGAAGTACAGGAGTAATCAATCAAGGAGTAATAATCTCGCTTACACAGCATGATG	960
Db	4441	CAATGAAGTACAGGAGTAATCAACCCAGGAGGTGAATATCTCTCTCATCAGCATGATG	4500
QY	961	TGAAGAGTTCTCATCTCCAGCAGCATCAAGATGGCCATCA	1000
Db	4501	TGAAGAGTTCTCATCTCCAGCATCAAGATGGCCATCAA	4540
RESULT 9			
US-09-880-107-2275			
Sequence 2275, Application US/09880107			
Patent No. US20020142981A1			
GENERAL INFORMATION:			
APPLICANT: Horne, Darci T.			
APPLICANT: Wockley, Joseph G.			
APPLICANT: Scherff, Uwe			
APPLICANT: Gene Logic, Inc.			
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer			
FILE REFERENCE: 44921-5028-WO			
CURRENT APPLICATION NUMBER: US/09/880,107			
CURRENT FILING DATE: 2001-06-14			
PRIOR APPLICATION NUMBER: US 60/211,379			
PRIOR FILING DATE: 2000-06-14			
PRIOR APPLICATION NUMBER: US 60/237,054			

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:
: PRIOR FILING DATE: 2000-10-02
:
: NUMBER OF SEQ ID NOS: 3950
:
: SOFTWARE: PatentIn Ver. 2.1
:
: SEQ ID NO 2275
:
: LENGTH: 6909
:
: TYPE: DNA
:
: ORGANISM: Homo sapiens
:
: FEATURE:
:
: OTHER INFORMATION: Genbank Accession No. US20020142981A1 M16967
US-09-880-107-2275

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	Query Match	Similarity	19.8%	Score 198.2	DB 10	Length 6909	
	Best Local	Similarity	51.5%	Pred. No. 4.9e-50			
	Matches	Conservative	520	0	Mismatches 468	Indels 21	Gaps
Qy	7	GGATTCCGATGTGATCTGCTCAGCATGGGAGGAGCAATGMAAAACATCCATTCTATTCATTTCGA	66				
Db	5564	GGGTGAGGTATACACCTGCGTGAACATATAGCGGGCTCCCAAGACATATACGTGGTTCACCTTTC	5623				
Qy	67	GTTGACATGTGTTCACTGTACGAAAAAAGAGAGATATATAATGTCACCTGTACAAATCTCT	126				
Db	5624	ACGGCCAGACCTTGTGTGAAAAATGGCAATPAACAGCACCAAGTATGGGGTCTGGCCCCCTTC	5683				
Qy	127	ATCCGAGGTGTTTGTGAGACAGTGGAAATTTACATCCCAAGCTGGAATTTGGCGGGGTG	186				
Db	5684	TGCGTGGTTCATTTAAACCTCTTGAAATATAGGCATCAAAACCCTGGCTGTGCTCTCTTA	5743				
Qy	187	AATGCCATTATTTGGCGAGCATCTACATGCTGGATGAGCACACTTTTCTGTGGTTCACGA	246				
Db	5744	ACACAGAGGTGTGGAGAAAAACAGAGAGCGAGGTGCAAAAGCCCATTTCTTATCATGAGCA	5803				
Qy	247	ATAAGTGTAGACTCCCGGGGGAATGGCTTTGTGGACACATTTAGAGATTTTCAGATTACAG	306				
Db	5804	GAGACTGTAGAGATGCCAAATGGGAGCTAGACACTGTGTATCATATCTGATTTACAGATACAG	5863				
Qy	307	CTTCAAGACAATATGAGACAGTGGGCCCAAGAGCTGGCCAGACTTCATTATTCGGATCAA	366				
Db	5864	CTTCAGATTTCTGGTTACTGTGGAGCCCAAGATTACAGATTAACAAATGGGTGATCTTT	5923				
Qy	367	TCGATGCTGGAGACACCAAGGAGC-----CCTTTTCTTGGATACAGG	408				
Db	5924	ATPATCTCTTGAGTGTGAAAACTTGACAGCAATTTGCTCTTAACCTGGATTCAGG	5983				
Qy	409	TGGATCTGTTGGCAACCAATGATTTATTCAGCGCATCAAGACCCAGGGTGGCCCTGACAAGT	468				
Db	5984	TGGACATCGAAAAAGAAAGTCAATATACAGAGATCCAGACCCAGAGTGCCTCAACACTACG	6043				
Qy	469	TCGCCAGCCCTTACATCTCTCAGTTTATCATCATGATATAGTCTTGTATGGGAGAGTGGC	528				
Db	6044	TGMAHCTGCTCTATACACAGAGTCTCATGTACTTACAGTCTCAACACAGATCAACGTGC	6103				
Qy	529	AGACTTATCGAGGAATTTCCACTGGAACCTTAATGGTCTCTTTGGCAATGTGGATTCAT	588				
Db	6104	AGATCTTCAAAAGGAACAGACAAAGAAATGTGATTTAATTAATGGCAATTCAGATGGCT	6163				
Qy	589	CTGAGATPAACCAATATTTTAAACCTCCCAATTTATGGTCGATACATCCGTTTGACC	648				
Db	6164	CTACATTAAGAAAGATTCAGTGTGACCCACACCTATGTGGGTATGATATTAAGATCTCTC	6223				
Qy	649	CAACTATTATAGCACTTCGACGACTCTTCGATGGAGTTGATGGGCTGTGATTTAATA	708				
Db	6224	CAACTGGAGCTTATACAGAGCTACCCCTTCGATTTGGAACTGCAAGGTTGGAGGTAAATG	6283				
Qy	709	GTTGAGCAATGCCATGTGGGAATGAGAGTAAACATATTCAGATGCAAGATATACGCTT	768				
Db	6284	GATGTTCCACACCCCTGGGTATGGAATAATGAAAGATAGAAACCAAGCAATATCACAGCTT	6343				
Qy	769	CATCTACTATTACCAATATGT--TTGCCACCTGTGCTCCCTCAAAAAGCTGCATTCACC	825				
Db	6344	CTTCGTTTAAGAATCTTGGTGGGAGATTAATGAGGAACCTTCGCGCTGTGATG	6403				
Qy	826	TCCAGGGAGGAGCTAATGCTGTGAGAGCTAGGTGAATATCCAAAAAGATGGCTGTGAAG	885				



Db 6404 CCCAGGACGCTGATGCTGCGCAAGCCAGCAACAACTAATGACAGTGGCTAGAAA 6463  
QY 886 TGGACTTCAGAGACAAATGAAGTCAAGAGTAACTACTAGGAGAGTAAATCTCTGC 945  
Db 6464 TTGATCTACTACAGATCAAGATGAATGAGGCAATTTATACACAGGGCTGACAGTCTCTGT 6523  
QY 946 TTACCCAGCATGTGTGGAAGAGATTCCTCATCTCCAGCAGTCAAGTGG 994  
Db 6524 CCTCTGAATGTATGTAAAGAGCTATACCATTCACATGAGTGAAGAGG 6572

## RESULT 10

US-09-974-298-167  
; Sequence 167, Application US/09974298  
; Patent No. US20020156263A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Huei-Mei  
; TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER  
; FILE REFERENCE: PA-0037 P  
; CURRENT APPLICATION NUMBER: US/09/974,298  
; PRIORITY FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/238,331  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 167  
; LENGTH: 4599  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID NO. US20020156263A1 235636.1  
US-09-974-298-167

Query Match 9.2%; Score 92.4; DB 9; Length 4599;  
Best Local Similarity 48.1%; Pred. No. 7.6e-18;  
Matches 301; Conservative 0; Mismatches 316; Indels 9; Gaps 1;

QY 384 AAGGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGCACCAGTATTTACGGGCATC 443  
Db 941 AATGACAGATGGCCGCTGATTCAGATTAATTTGCAAGGAAATAGAGTACTGCTGTG 1000  
QY 444 AAGACCCAGGCTGCGCCGTCAGAGTCTCCAGCCTCTACATCTCAGTTATCATCATG 503  
Db 1001 ATTACCCAGGAGCCAGAGGATTTGAGAGCCAGAGTATTAATTTCTACAAAATTTGCC 1060  
QY 504 TATAGCTCTTGATGGAAGAGTGGCAGACTTATCGAGAAATTCACCTGGAACCTTAAG 563  
Db 1061 TACAGTAATGATGAAAGACTTGGCAATGTACAAAGTGAAGGACCAATGAGACATG 1120  
QY 564 GTCTCTTTGGCAATGTGATTCATCTGGGATTAACACAAATATTTTAACTTCAATT 623  
Db 1121 GTGTTTCGGTGAACATGTGATTAACACATCTCCATATGCTTAACTCTTACACCCCCCAT 1180  
QY 624 ATTGCTGATCATCCGTTTGCACCAACTCATTTATAGCATTCGAGAGCTTTGCGATG 683  
Db 1181 AAGGCTAGTATGTAAGACTCTATCCCAAGTTTGTGAGAGCATTTGACCTTTGGGAATG 1240  
QY 684 GAGTTGATGGCTGTGATTTAAATAGTTGAGAGCATTCATTGGGAGTGAAGATGAACA 743  
Db 1241 GAACCTTCTGCTGGAATCTGCGGGTGTCTGAGCCTTGAGTATGAATATCAGAGCAT 1300  
QY 744 ATATAGATGACAGATTTAGCTCTTACCTACT-----TTACCAATATGTTTGGC 794  
Db 1301 ATACAGAGCTATCAGATCTGCTCCAGCATCTTTCAGAACGCTCAACATGAGACATGTC 1360  
QY 795 ACCGTGCTCTTCAAAAGCTGCACTTCACTCAAGGAGAGATGAGTGGTGGAGACT 854  
Db 1361 ACTTGGGAACCAAGAAAGCTGGCTGAGCAAGGAGCAAGTGAATGACCTTGGACCTCT 1420  
QY 855 CAGGTGAATTAATCAAAAGAGTGGCTGCAAGTGAATTCAGAAAGACATGAAGTCAACA 914  
Db 1421 GCCCAGCAATGACAGTCAATGATGTTACAGGTGATCTTCTGTTCCAAACCAAGTGAAT 1480

QY 915 GGAGTAACACTCAGGAGTAATAATCTGCTTACACAGCATGTATGTGAAGAGTCTCTC 974  
Db 1481 GGCATCATTTACCAAGAGGCTCAAAATTTTGGTCAATGATGATGTTGCTCTCTACAAA 1540  
QY 975 ATCTCCAGCATGCAAGATGGCCATCA 1000  
Db 1541 CTGGCTTACAGCAATGATGAGAAACA 1566

## RESULT 11

US-10-003-132-12  
; Sequence 12, Application US/10003132  
; Publication No. US20020192750A1  
; GENERAL INFORMATION:  
; APPLICANT: Fox, Brian A.  
; APPLICANT: Gao, Zeren  
; APPLICANT: Shoemaker, Kimberly E.  
; TITLE OF INVENTION: NEUROFILIN HOMOLOG 2CUB5  
; FILE REFERENCE: 00-62  
; CURRENT APPLICATION NUMBER: US/10/003,132  
; PRIORITY FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: US 60/249,004  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 12  
; LENGTH: 2145  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: degenerate nucleotide sequence  
; NAME/KEY: misc.feature  
; LOCATION: (1)...(2145)  
; OTHER INFORMATION: n = A,T,C or G  
US-10-003-132-12

Query Match 7.6%; Score 76; DB 9; Length 2145;  
Best Local Similarity 32.4%; Pred. No. 5.1e-13;  
Matches 122; Conservative 64; Mismatches 191; Indels 0; Gaps 0;

QY 329 GCCCCCAAGGCTGGCCAGACTCTATTATCCGATCATCAATAGCCCTGGAGCACCAAGGA 388  
Db 867 GCGMGNNTNCAAGATCAAGGCTGTTGGCCACCAATGATTAATTCACGCAATCAAGAC 926  
QY 389 GCCCTTTCTTGATCAAGGTGATCTGTTGGCCACCAATGATTAATTCACGCAATCAAGAC 448  
Db 927 RCGMNGARTGCTTNGARATFHGAYITNGNGARAAARAAATTAHCNCGNATFHMGNC 986  
QY 449 CCAAGGTGCCGCTGAGAAGTTCTCCAGCTCTACATCTCTCACTTATCATCATGATG 508  
Db 987 NACNGMWSNACARMSNAATTTAAATTTTAYGTAAARWSNTTGTATGAATTTAA 1046  
QY 509 TCTTGATGGGAAGAGGAGGAGACTTATGAGGAATTCACAGGAACCTTAATGCTT 568  
Db 1047 RAATTAATTAATWSNARATGGAARACNTAATTAARGNATHTGTAATAAAGARARARCTNTT 1106  
QY 569 CTTTGGCAATGTGATTCATCTGGGATTAACCAATATTTTAACTTCACTTCAATTTTGC 628  
Db 1107 YCARAAAYWSNAAYTTGNGAYCCNGTNCARAAAYTAATTAATTCNCGNATHTGNC 1166  
QY 629 TCGATACATCCGTTTGCACCAACTCATTTATAGCATTCGAGAGCTCTTGGATGAGT 688  
Db 1167 NMGTATGTMNGTNGTNCNCAACNTGTCAYCARMSNATHTGCMYTNARCTNGARATY 1226  
QY 689 GATGGCTGATTTAA 705  
Db 1227 NATHGNTGICARATRA 1243

RESULT 12  
US-09-880-107-3020  
; Sequence 3020, Application US/09880107



Patent No. US20020142981A1  
GENERAL INFORMATION:  
APPLICANT: Horne, Darci T.  
APPLICANT: Vockley, Joseph G.  
APPLICANT: Scherif, Uwe  
APPLICANT: Gene Logic, Inc.  
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
FILE REFERENCE: 44921-5028-MO  
CURRENT APPLICATION NUMBER: US/09/880,107  
CURRENT FILING DATE: 2001-06-14  
PRIOR APPLICATION NUMBER: US 60/211,379  
PRIOR FILING DATE: 2000-06-14  
PRIOR APPLICATION NUMBER: US 60/237,054  
PRIOR FILING DATE: 2000-10-02  
NUMBER OF SEQ ID NOS: 3950  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3020  
LENGTH: 1270  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: Genbank Accession No. US20020142981A1 S56151  
US-09-880-107-3020

Query Match 7.2%; Score 72.4; DB 10; Length 1270;  
Best Local Similarity 51.6%; Pred. No. 4,8e-12;  
Matches 197; Conservative 0; Mismatches 176; Indels 9; Gaps 1;

Qy 561 ATGCTCTCTTGGCAATGTGATCATCTGGGATAAACACAAATATTTTAAACCTTCA 620  
Db 31 AAGGAGTTGTGGTAAGTACGMAAAACGGGTGATGTAACCTGTGGAGACCCCT 90  
Qy 621 ATTATTCCTCCATATCCCTTTGACACCACTCATTTAGCATTCGAGACCTTTCG 680  
Db 91 GTGAGGCTCACTAGTATGATTTGACCCACAGACTCCACAGGGCTGACCTCTGCG 150  
Qy 681 ATGAGTGTGATGGCTGTGATTAATAGTTGACAGATCCATTCGAGATGAGATGAA 740  
Db 151 TTGAGCTACAGTGGCTGTGAGTGAACGATGCGCCATCCCTGGCTGAAGATAC 210  
Qy 741 GCATATTCAGATGACAGATTAAGTCTTCAATCTTACCAATATG-----TTT 791  
Db 211 AAGATCCCTGACACAGATATCAGGCTCCAGACACTCAAGACCTGGGGCTTGATCTC 270  
Qy 792 GCCACTGGTCTCTTCAAAAGCTGACTTACCTCCAGAGAGAGATTAAGCCTGAGA 851  
Db 271 TTCACTGGACCCCTCTATGACAGGCTGCAAGAGGCACTTCAAGCCTGGGTT 330  
Qy 852 CCTCAGTGAATATATCAAAAGAGTGGCTGCAAGTGAAGTTCACAGACATGAAGTTC 911  
Db 331 GGGGGAGCTAGGATAGATGAGGCTGCGAGTGTGACCTGGCTCTCGAAGAGGTG 390  
Qy 912 ACAGAGTAATCTCTCAGGGAG 933  
Db 391 ACAGCATCATCACCAGGGG 412

RESULT 13  
US-09-960-352-13850  
Sequence 13850, Application US/09960352  
Patent No. US20020137139A1  
GENERAL INFORMATION:  
APPLICANT: Warren, Wesley C.  
APPLICANT: Tao, Nengbing  
APPLICANT: Byatt, John C.  
APPLICANT: Mathialagan, Nagappan  
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND  
FILE REFERENCE: 16511.006/37-21(10298)C  
CURRENT APPLICATION NUMBER: US/09/960,352  
CURRENT FILING DATE: 2001-09-24  
NUMBER OF SEQ ID NOS: 15112  
SEQ ID NO 13850

LENGTH: 357  
TYPE: DNA  
ORGANISM: Bos taurus  
OTHER INFORMATION: Clone ID: 59-LIB34-008-Q1-E1-612  
US-09-960-352-13850

Query Match 6.9%; Score 69.2; DB 10; Length 357;  
Best Local Similarity 54.8%; Pred. No. 2.3e-11;  
Matches 137; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

Qy 129 CCAAGTGTCTTTGAGACAGTGAAGATTTACATCCAAAGCTGGAATTTGGCGGTGAA 188  
Db 34 CCGTGTATTTTAAACTCTTGAATGAAGGACCAAACTGGCTGGGCTCTTACAC 93  
Qy 189 TGCCTTATTTGGCAGCATCTACATGCTGGGATGAGCAACATTTTCTGGTGTACACAT 248  
Db 94 ACGGAAGTTGAGAAATTCAGAGAGGAGATGACAGACATTTTCTGATTTAGACAGA 153  
Qy 249 AAGTGTACAGACTCCCTGGGAATGGCTTCTGACACATTTAGAGATTTTTCAGATTACAGCT 308  
Db 154 GAATGTAAAGATGCCAATAGGAGACTAGCAGCTGGCTGATAGCTACAGATCAGAGCT 213  
Qy 309 TCAGACATATATGACAGTGGGCCCAAGCTGGCAGACATTTATTTCCGATCAATC 368  
Db 214 TCTGAGTTTGGGGTTATTTGGGAACCAATTTAGCAAGTTAAACAATGGTGGATCATAC 273  
Qy 369 AATGCTTGA 378  
Db 274 AATGCTTGA 283

RESULT 14  
US-09-960-352-8113  
Sequence 8113, Application US/09960352  
Patent No. US20020137139A1  
GENERAL INFORMATION:  
APPLICANT: Warren, Wesley C.  
APPLICANT: Tao, Nengbing  
APPLICANT: Byatt, John C.  
APPLICANT: Mathialagan, Nagappan  
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND  
FILE REFERENCE: 16511.006/37-21(10298)C  
CURRENT APPLICATION NUMBER: US/09/960,352  
CURRENT FILING DATE: 2001-09-24  
NUMBER OF SEQ ID NOS: 15112  
SEQ ID NO 8113  
LENGTH: 389  
TYPE: DNA  
ORGANISM: Bos taurus  
OTHER INFORMATION: Clone ID: 35-LIB2809-021-Q1-E1-A4  
US-09-960-352-8113

Query Match 6.1%; Score 61.2; DB 10; Length 389;  
Best Local Similarity 51.2%; Pred. No. 6.8e-09;  
Matches 175; Conservative 0; Mismatches 158; Indels 9; Gaps 1;

Qy 662 CATTCGACAGCATCTTGGCATGAGTGTGCTGATTTAATATGTGACAGCATGCC 721  
Db 31 CAAAGGCTGACCTCTCGCTTTGAATCTTGGCTGTGATGATGATGACATGACAC 90  
Qy 722 ATTGCAATGAGAGATTAAGCAATATATGATGACAGATTAAGTCTTCACTTAC 781  
Db 91 CCTAGCCCTGAAGATATATACATCCCAACAGACATGACAGCCCTCAGTACTACAA 150  
Qy 782 CAATATGTTTCCAC-----CTGGTCTCTTCAAAAGCTGACTTACCTCCAGG 832  
Db 151 AACCTGGGCTGAGTGTGCTTACCTGTTCCCTTACGACGACTGTGATATCAGG 210  
Qy 833 GAGAGATATGCTGAGAGACTGAGTGAATATCCAAAAGAGTGGCTGCAAGTGAAGT 892  
Db 211 CAAGTCAAGCCTGAGACGCCAGACCAACAGTGTCTGTGAGTGGCTGAGATGACCT 270



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OM protein - protein search, using sw model

Run on: January 5, 2003, 04:48:07 ; Search time 24 Seconds

(without alignments)  
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Title: US-09-740-211-15

Perfect score: 75

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Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep.\*
- 3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep.\*
- 5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep.\*
- 6: /cgn2\_6/ptodata/1/1aa/Backfill1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	75	100.0	14	2	US-08-634-001C-1
2	75	100.0	14	4	US-09-470-618-15
3	75	100.0	1438	4	US-09-209-916-1
4	65	86.7	1661	2	US-08-882-083-2
5	65	86.7	1661	2	US-08-558-107-2
6	65	86.7	1661	4	US-09-243-539-2
7	65	86.7	2332	1	US-07-864-004B-4
8	65	86.7	2332	1	US-08-251-937A-4
9	65	86.7	2332	1	US-08-212-133A-2
10	65	86.7	2332	1	US-08-276-594A-2
11	65	86.7	2332	1	US-08-474-503-2
12	65	86.7	2332	2	US-08-670-707A-2
13	65	86.7	2332	4	US-09-037-601A-2
14	65	86.7	2332	4	US-09-324-867-3
15	65	86.7	2332	4	US-09-315-179-2
16	65	86.7	2332	4	US-09-523-656-2
17	65	86.7	2332	5	PCT-US93-03275-4
18	65	86.7	2332	5	PCT-US94-13200-2
19	65	86.7	2331	1	US-08-121-202-2
20	65	86.7	2331	1	US-08-366-851A-2
21	65	86.7	2331	6	5171844-2
22	65	86.7	2331	6	5422260-1
23	58	77.3	1471	1	US-08-683-839B-3
24	58	74.7	2304	4	US-09-324-867-4
25	56	74.7	2319	1	US-08-212-133A-8
26	56	74.7	2319	1	US-08-474-503-6
27	56	74.7	2319	2	US-08-670-707A-6

28	56	74.7	2319	4	US-09-037-601-6	Sequence 6, Appl
29	56	74.7	2319	4	US-09-315-179-6	Sequence 6, Appl
30	56	74.7	2319	4	US-09-523-656-28	Sequence 28, Appl
31	56	74.7	2319	5	PCT-US94-13200-6	Sequence 6, Appl
32	55	73.3	34	3	US-08-441-935-30	Sequence 30, Appl
33	55	73.3	34	4	US-08-441-943-30	Sequence 30, Appl
34	54	72.0	24	4	US-09-523-656-32	Sequence 32, Appl
35	54	72.0	1467	4	US-09-523-656-38	Sequence 38, Appl
36	54	72.0	2343	4	US-09-324-867-2	Sequence 2, Appl
37	50	66.7	9	4	US-08-441-943-34	Sequence 34, Appl
38	47	62.7	868	1	US-07-864-004B-6	Sequence 6, Appl
39	47	62.7	868	1	US-08-251-937A-6	Sequence 6, Appl
40	47	62.7	868	1	US-08-212-133A-3	Sequence 3, Appl
41	47	62.7	1090	5	PCT-US93-03275-6	Sequence 6, Appl
42	47	62.7	2115	4	US-09-324-867-5	Sequence 5, Appl
43	47	62.7	2133	2	US-08-670-707A-37	Sequence 37, Appl
44	47	62.7	2133	4	US-09-037-601-37	Sequence 37, Appl
45	47	62.7	2133	4	US-09-315-179-37	Sequence 37, Appl

#### ALIGNMENTS

RESULT 1  
US-08-634-001C-1  
Sequence 1, Application US/08634001C  
Patent No. 5952198  
GENERAL INFORMATION:  
APPLICANT: Chan, Sham-Yuen  
TITLE OF INVENTION: Production of Recombinant Factor VIII  
TITLE OF INVENTION: In the Presence of Liposome-Like  
SUBSTANCES OF MIXED COMPOSITION  
NUMBER OF SEQUENCES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Bayer Corporation  
STREET: 800 Dwight Way  
STREET: P. O. Box 1986  
CITY: Berkeley  
STATE: California  
COUNTRY: USA  
ZIP: 94701-1986  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB Storage  
COMPUTER: IBM  
OPERATING SYSTEM: DOS  
SOFTWARE: WordPerfect 6.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/634,001C  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/434,900  
FILING DATE: May 4, 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Giblin, James A.  
REGISTRATION NUMBER: 25772  
REFERENCE/DOCKET NUMBER: MSB-7226CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (510)705-7910  
TELEFAX: (510)705-7904  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 14  
TYPE: amino acid  
STRANDEDNESS: single strand  
TOPOLOGY: linear  
MOLECULE TYPE:  
DESCRIPTION: peptide  
US-08-634-001C-1

Query Match 100.0%; Score 75; DB 2; Length 14;  
Best Local Similarity 100.0%; Pred. No. 4.7e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVLRHQR 14  
|  
Db 1 SFSQNPVLRHQR 14

RESULT 2  
US-09-470-618-15  
; Sequence 15, Application US/09470618  
; Patent No. 6200560  
; GENERAL INFORMATION:  
; APPLICANT: Couto, Linda B.  
; APPLICANT: Colosi, Peter C.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; FILE REFERENCE: Avigen-04082  
; CURRENT APPLICATION NUMBER: US/09/470,618  
; CURRENT FILING DATE: 1999-12-22  
; EARLIER APPLICATION NUMBER: 09/364,862  
; EARLIER FILING DATE: 1999-07-30  
; EARLIER APPLICATION NUMBER: 60/125,974  
; EARLIER FILING DATE: 1999-03-24  
; EARLIER APPLICATION NUMBER: 60/104,994  
; EARLIER FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-470-618-15

Query Match  
Best Local Similarity 100.0%; Score 75; DB 4; Length 14;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVLRHQR 14  
|  
Db 1 SFSQNPVLRHQR 14

RESULT 3  
US-09-209-916-1  
; Sequence 1, Application US/09209916  
; Patent No. 6358703  
; GENERAL INFORMATION:  
; APPLICANT: Cho, Myung-Sam  
; APPLICANT: Chan, Sham-Yuen  
; APPLICANT: Kelsey, William  
; APPLICANT: Yee, Helena  
; TITLE OF INVENTION: Expression System for Factor VIII  
; FILE REFERENCE: MSB-7255  
; CURRENT APPLICATION NUMBER: US/09/209,916  
; CURRENT FILING DATE: 1998-12-10  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1438  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Derived from  
; OTHER INFORMATION: human factor VIII sequence  
US-09-209-916-1

Query Match  
Best Local Similarity 100.0%; Score 75; DB 4; Length 1438;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SFSQNPVLRHQR 14  
|  
Db 1 SFSQNPVLRHQR 14

Db 741 SFSQNPVLRHQR 754

RESULT 4  
US-08-882-083-2  
; Sequence 2, Application US/08882083  
; Patent No. 5869292  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentln Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882,083  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558,107  
; FILING DATE: 13-NOV-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33,715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1661 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-882-083-2

Query Match  
Best Local Similarity 86.7%; Score 65; DB 2; Length 1661;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SFSQNPVLRHQR 14  
|  
Db 966 SFSQNPVLRHQR 977

RESULT 5  
US-08-558-107-2  
; Sequence 2, Application US/08558107  
; Patent No. 5910481  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
US-08-558-107-2

OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/558,107  
 FILING DATE: 13-NOV-1995  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: ISACSON, John P.  
 REGISTRATION NUMBER: 33,715  
 REFERENCE/DOCKET NUMBER: 30472/212  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202)672-5300  
 TELEFAX: (202)672-5399  
 TELEX: 904136  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1661 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-558-107-2

Query Match 86.7%; Score 65; DB 2; Length 1661;  
 Best Local Similarity 100.0%; Pred. No. 0.0045;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVLKRHR 14  
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 DB 966 SONPVLKRHR 977

RESULT 6  
 US-09-243-539-2  
 Sequence 2, Application US/09243539  
 Patent No. 6130203  
 GENERAL INFORMATION:  
 APPLICANT: VOORBERG, Johannes J.  
 TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Foley & Lardner  
 STREET: 3000 K Street, N.W., Suite 500  
 CITY: Washington  
 STATE: D.C.  
 COUNTRY: USA  
 ZIP: 20007-5109  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/243,539  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/558,107  
 FILING DATE: 13-NOV-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: ISACSON, John P.  
 REGISTRATION NUMBER: 33,715  
 REFERENCE/DOCKET NUMBER: 30472/212  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (202)672-5300  
 TELEFAX: (202)672-5399  
 TELEX: 904136  
 INFORMATION FOR SEQ ID NO: 2:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1661 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-243-539-2

Query Match 86.7%; Score 65; DB 4; Length 1661;  
 Best Local Similarity 100.0%; Pred. No. 0.0045;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVLKRHR 14  
 |||||  
 DB 966 SONPVLKRHR 977

RESULT 7  
 US-07-864-004B-4  
 Sequence 4, Application US/07864004B  
 Patent No. 5364771  
 GENERAL INFORMATION:  
 APPLICANT: Lollar, John S.  
 TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII  
 NUMBER OF SEQUENCES: 6  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Kilpatrick & Cody  
 STREET: 1100 Peachtree Street  
 CITY: Atlanta  
 STATE: Georgia  
 COUNTRY: US  
 ZIP: 30309  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/864,004B  
 FILING DATE: 07 APRIL 1992  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Pabst, Patrea L.  
 REGISTRATION NUMBER: 31,284  
 REFERENCE/DOCKET NUMBER: EMU106  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 404-815-6508  
 TELEFAX: 404-815-6555  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2332 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 FRAGMENT TYPE: N-terminal  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapien  
 TISSUE TYPE: Liver cDNA sequence  
 US-07-864-004B-4

Query Match 86.7%; Score 65; DB 1; Length 2332;  
 Best Local Similarity 100.0%; Pred. No. 0.0066;  
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVLKRHR 14  
 |||||  
 DB 1637 SONPVLKRHR 1648

RESULT 8  
 US-08-251-937A-4  
 Sequence 4, Application US/08251937A  
 Patent No. 5583209  
 GENERAL INFORMATION:  
 APPLICANT: Lollar, John S.  
 ADDRESSEE: Runge, Marshall S.

;; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII  
;; NUMBER OF SEQUENCES: 10  
;; CORRESPONDENCE ADDRESSES:  
;; ADDRESSEE: Kilpatrick & Cody  
;; STREET: 1100 Peachtree Street  
;; CITY: Atlanta  
;; STATE: Georgia  
;; COUNTRY: US  
;; ZIP: 30309  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/251,937A  
;; FILING DATE: 31-MAY-1994  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/864,004  
;; FILING DATE: 07-APR-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Pratt, John S.  
;; REGISTRATION NUMBER: 29,476  
;; REFERENCE/DOCKET NUMBER: EMU106DIV  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 404-815-6367  
;; TELEFAX: 404-815-6555  
;; INFORMATION FOR SEQ ID NO: 4:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 2332 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEetical: NO  
;; ANTI-SENSE: NO  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Homo sapien  
;; TISSUE TYPE: Liver CDNA sequence  
;; US-08-251-937A-4  
;  
Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
;  
QY 3 SONPVLRKHQR 14  
Db 1637 SONPVLRKHQR 1648  
;  
RESULT 9  
US-08-212-133A-2  
;; Sequence 2, Application US/08212133A  
;; Patent No. 5693060  
;; GENERAL INFORMATION:  
;; APPLICANT: Lollar, John S.  
;; APPLICANT: Runge, Marschall S.  
;; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
;; NUMBER OF SEQUENCES: 12  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Kilpatrick & Cody  
;; STREET: 100 Peachtree Street  
;; CITY: Atlanta  
;; STATE: Georgia  
;; COUNTRY: US  
;; ZIP: 30303  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Pratt, John S.  
;; REGISTRATION NUMBER: 29,476  
;; REFERENCE/DOCKET NUMBER: EMU106DIV  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 404-815-6367  
;; TELEFAX: 404-815-6555  
;; INFORMATION FOR SEQ ID NO: 4:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 2332 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEtical: NO  
;; ANTI-SENSE: NO  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Homo sapien  
;; TISSUE TYPE: Liver CDNA sequence  
;; US-08-212-133A-2

;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/212,133A  
;; FILING DATE: March 11, 1994  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/864,004  
;; FILING DATE: 07-APR-1992  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Pabst, Patricia L.  
;; REGISTRATION NUMBER: 31,284  
;; REFERENCE/DOCKET NUMBER: EMU/76677  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 404-572-6508  
;; TELEFAX: 404-572-6555  
;; INFORMATION FOR SEQ ID NO: 2:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 2332 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEtical: YES  
;; ANTI-SENSE: NO  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Homo sapien  
;; TISSUE TYPE: Liver CDNA sequence  
;; US-08-212-133A-2  
;  
Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
;  
QY 3 SONPVLRKHQR 14  
Db 1637 SONPVLRKHQR 1648  
;  
RESULT 10  
US-08-276-594A-2  
;; Sequence 2, Application US/08276594A  
;; Patent No. 5693499  
;; GENERAL INFORMATION:  
;; APPLICANT: YONEMURA, Hiroshi  
;; APPLICANT: TAJIMA, Yoshitaka  
;; APPLICANT: SUGAWARA, Keishin  
;; APPLICANT: MASUDA, Kenichi  
;; TITLE OF INVENTION: PROCESS FOR PREPARING HUMAN COAGULATION  
;; TITLE OF INVENTION: FACTOR VIII PROTEIN COMPLEX  
;; NUMBER OF SEQUENCES: 11  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Foley & Lardner  
;; STREET: 3000 K Street, N.W., Suite 500  
;; CITY: Washington  
;; STATE: D.C.  
;; COUNTRY: USA  
;; ZIP: 20007-5109  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/276,594A  
;; FILING DATE: 18-JUL-1994  
;; CLASSIFICATION: 435  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: US 07/950,191  
;; FILING DATE: 24-SEP-1992  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 243262/1991  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEtical: YES  
;; ANTI-SENSE: NO  
;; FRAGMENT TYPE: N-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Homo sapien  
;; TISSUE TYPE: Liver CDNA sequence  
;; US-08-276-594A-2

NAME: WEGNER, Harold C  
REGISTRATION NUMBER: 25,258  
REFERENCE/DOCKET NUMBER: 74129/195/AOPA  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-276-594A-2

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYKRRHOR 14  
Db 1637 SONPVYKRRHOR 1648

RESULT 11  
US-08-474-503-2  
Sequence 2, Application US/08474503  
Patent No. 5744446  
GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 1100 Peachtree Street, Suite 2800  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30309  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/474,503  
APPLICATION NUMBER: US/08/474,503  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: .435  
ATTORNEY/AGENT INFORMATION:  
NAME: Pratt, John S.  
REGISTRATION NUMBER: 29,476  
REFERENCE/DOCKET NUMBER: EMU106CIP(3)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-815-6500  
TELEFAX: 404-815-6555  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver cDNA sequence  
US-08-474-503-2

Query Match 86.7%; Score 65; DB 1; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYKRRHOR 14  
Db 1637 SONPVYKRRHOR 1648

RESULT 12  
US-08-670-707A-2  
Sequence 2, Application US/08670707A  
Patent No. 5839204  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
STREET: 5370 Manhattan Circle Suite 201  
CITY: Boulder  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/670,707A  
FILING DATE: 26-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US94/13200  
FILING DATE: 15-NOV-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/212,133  
FILING DATE: 11-MAR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Greenlee, Lorraine L.  
REGISTRATION NUMBER: 27,894  
REFERENCE/DOCKET NUMBER: 75-95F  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 303/499-8080  
TELEFAX: 303/499-8089  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2332 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
HYPOTHETICAL: YES  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
TISSUE TYPE: Liver  
US-08-670-707A-2

Query Match 86.7%; Score 65; DB 2; Length 2332;  
Best Local Similarity 100.0%; Pred. No. 0.0066;  
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 SONPVYKRRHOR 14  
Db 1637 SONPVYKRRHOR 1648

RESULT 13  
US-09-037-601-2  
Sequence 2, Application US/09037601

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; Patent No. 6180371
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S.
; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
; NUMBER OF SEQUENCES: 40
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/037,601
; FILING DATE: 26-JUN-1996
; CLASSIFICATION:
; PRIORITY INFORMATION:
; APPLICATION NUMBER: WO PCT/US94/13200
; FILING DATE: 15-NOV-1994
; PRIORITY INFORMATION:
; APPLICATION NUMBER: US 08/212,133
; FILING DATE: 11-MAR-1994
; PRIORITY INFORMATION:
; APPLICATION NUMBER: US 07/864,004
; FILING DATE: 07-APR-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 75-95F
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 303/499-8080
; TELEFAX: 303/499-8089
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2332 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
; HYPOTHEetical: YES
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; TISSUE TYPE: Liver
; US-09-037-601-2

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

RESULT 14
US-09-324-867-3
; Sequence 3, Application US/09324867A
; Patent No. 6251632
; GENERAL INFORMATION:
; APPLICANT: Lillietrap, David
; APPLICANT: Cameron, Cherie
; APPLICANT: No. 62516321ey, Colleen
; APPLICANT: Horrocks, L. Suzanne Hoyle
; APPLICANT: Hough, Christine
; TITLE OF INVENTION: Canine Factor VIII Gene, Protein and Methods of Use
; FILE REFERENCE: 1669.0010002/JAG/BJD
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; CURRENT APPLICATION NUMBER: US/09/324,867A
; CURRENT FILING DATE: 1999-06-03
; EARLIER APPLICATION NUMBER: 09/035,141
; EARLIER FILING DATE: 1998-03-059
; EARLIER APPLICATION NUMBER: 60/039,953
; EARLIER FILING DATE: 1997-03-06
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-324-867-3

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

RESULT 15
US-09-315-179-2
; Sequence 2, Application US/09315179
; Patent No. 6376463
; GENERAL INFORMATION:
; APPLICANT: Lollar, John S
; TITLE OF INVENTION: Modified Factor VIII
; FILE REFERENCE: 75-95H
; CURRENT APPLICATION NUMBER: US/09/315,179
; CURRENT FILING DATE: 1999-05-20
; EARLIER APPLICATION NUMBER: U.S. 09/037,601
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: U.S. 08/670,707
; EARLIER FILING DATE: 1996-06-26
; EARLIER APPLICATION NUMBER: PCT/US97/11155
; EARLIER FILING DATE: 1997-06-26
; EARLIER APPLICATION NUMBER: PCT/US94/13200
; EARLIER FILING DATE: 1994-11-15
; EARLIER APPLICATION NUMBER: U.S. 08/212,133
; EARLIER FILING DATE: 1994-03-11
; EARLIER APPLICATION NUMBER: U.S. 07/864,004
; EARLIER FILING DATE: 1992-04-07
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-315-179-2

Query Match      86.7%; Score 65; DB 4; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 SONPPVLRKHOR 14
Db      1637 SONPPVLRKHOR 1648

Search completed: January 5, 2003, 06:16:05
Job time : 26 secs
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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 5, 2003, 06:13:09 ; Search time 17 Seconds  
(without alignments)  
15.607 Million cell updates/sec

Title: US-09-740-211-15  
Perfect score: 75  
Sequence: 1 SFSQNPVYLRHQR 14

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 117078 seqs, 18951520 residues  
Total number of hits satisfying chosen parameters: 117078

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications AA:\*  
1: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB pep:\*  
2: /cgn2\_6/ptodata/2/pubppaa/PCR\_NEW\_PUB pep:\*  
3: /cgn2\_6/ptodata/2/pubppaa/US06\_NEW\_PUB pep:\*  
4: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB pep:\*  
5: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB pep:\*  
6: /cgn2\_6/ptodata/2/pubppaa/US07\_PUBCOMB pep:\*  
7: /cgn2\_6/ptodata/2/pubppaa/PCRUS\_PUBCOMB pep:\*  
8: /cgn2\_6/ptodata/2/pubppaa/US09\_PUBCOMB pep:\*  
9: /cgn2\_6/ptodata/2/pubppaa/US09\_NEW\_PUB pep:\*  
10: /cgn2\_6/ptodata/2/pubppaa/US10\_NEW\_PUB pep:\*  
11: /cgn2\_6/ptodata/2/pubppaa/US10\_PUBCOMB pep:\*  
12: /cgn2\_6/ptodata/2/pubppaa/US60\_NEW\_PUB pep:\*  
13: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB pep:\*  
14: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	75	100.0	14	9 US-10-007-968-15	Sequence 15, Appl
2	75	100.0	14	10 US-09-740-211-15	Sequence 15, Appl
3	75	100.0	1438	12 US-10-006-091-1	Sequence 1, Appl
4	75	100.0	1438	12 US-10-047-257-1	Sequence 1, Appl
5	65	86.7	2332	9 US-09-957-641-2	Sequence 2, Appl
6	58	77.3	1471	12 US-10-095-718-2	Sequence 2, Appl
7	55	72.3	34	10 US-09-748-062-30	Sequence 30, Appl
8	50	66.7	9	10 US-09-748-062-34	Sequence 34, Appl
9	38	50.7	79	9 US-09-766-692-2429	Sequence 2429, Ap
10	38	50.7	269	9 US-10-027-806-24	Sequence 24, Appl
11	38	50.7	269	9 US-10-034-623-24	Sequence 24, Appl
12	38	50.7	273	9 US-10-027-806-56	Sequence 56, Appl
13	38	50.7	273	9 US-10-034-623-56	Sequence 56, Appl
14	38	50.7	684	10 US-09-765-298A-18	Sequence 18, Appl
15	37	49.3	158	9 US-09-887-593-2	Sequence 2, Appl
16	37	49.3	194	10 US-09-764-898-285	Sequence 285, App
17	37	49.3	293	10 US-09-764-898-213	Sequence 213, App
18	37	49.3	405	12 US-10-060-333-2	Sequence 2, Appl
19	37	49.3	447	10 US-09-888-615-109	Sequence 109, App

20	37	49.3	533	9 US-10-041-406-2	Sequence 2, Appl
21	36	48.0	49	10 US-09-864-761-40695	Sequence 40695, A
22	36	48.0	452	10 US-09-925-297-683	Sequence 683, App
23	36	48.0	468	10 US-09-768-826-40	Sequence 40, Appl
24	36	48.0	494	10 US-09-833-790-234	Sequence 234, App
25	36	48.0	551	10 US-09-897-214-8	Sequence 8, Appl
26	36	48.0	565	10 US-09-768-826-58	Sequence 58, Appl
27	36	48.0	763	10 US-09-815-242-13643	Sequence 13643, A
28	35.5	47.3	221	10 US-09-764-864-1484	Sequence 1484, Ap
29	35.5	47.3	284	10 US-09-925-300-1322	Sequence 1322, Ap
30	35.5	47.3	513	10 US-09-764-864-1061	Sequence 1061, Ap
31	35.5	47.3	910	9 US-09-908-153B-40	Sequence 40, Appl
32	35.5	47.3	922	9 US-09-908-153B-42	Sequence 42, Appl
33	35	46.7	36	9 US-10-016-634A-161	Sequence 161, App
34	35	46.7	320	9 US-09-738-626-6378	Sequence 6378, Ap
35	35	46.7	523	10 US-09-815-242-11918	Sequence 11918, A
36	34.5	46.0	711	10 US-09-976-165-10	Sequence 10, Appl
37	34.5	46.0	711	10 US-09-828-648-2	Sequence 2, Appl
38	34	45.3	26	10 US-09-864-761-41575	Sequence 41575, A
39	34	45.3	36	10 US-09-864-761-34767	Sequence 34767, A
40	34	45.3	94	10 US-09-892-228-126	Sequence 126, App
41	34	45.3	100	10 US-09-867-550-1070	Sequence 1070, App
42	34	45.3	112	10 US-09-741-669-404	Sequence 404, App
43	34	45.3	322	10 US-10-036-041-80	Sequence 80, Appl
44	34	45.3	339	9 US-09-729-674-138	Sequence 138, App
45	34	45.3	339	10 US-09-729-674-138	Sequence 138, App

#### ALIGNMENTS

RESULT 1  
US-10-007-968-15  
; Sequence 15, Application US/10007968  
; Patent No. US2002015977A1  
; GENERAL INFORMATION:  
; APPLICANT: Coulto, Linda B.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; TITLE OF INVENTION: by Target Cells  
; FILE REFERENCE: AVigen-04062  
; CURRENT APPLICATION NUMBER: US/10/007, 968  
; CURRENT FILING DATE: 2001-12-13  
; PRIOR APPLICATION NUMBER: 09/740, 211  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104, 994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 15  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-15  
Query Match 100.0%; Score 75; DB 9; Length 14;  
Best Local Similarity 100.0%; Pred. No. 8.8e-07;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
CY 1 SFSQNPVYLRHQR 14  
DB 1 SFSQNPVYLRHQR 14  
RESULT 2  
US-09-740-211-15  
; Sequence 15, Application US/09740211  
; Patent No. US20010010815A1  
; GENERAL INFORMATION:

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; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: Avigen-04082
; CURRENT APPLICATION NUMBER: US/09/740,211
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 09/470,618
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/125,974
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/104,994
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 15
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-740-211-15
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Query Match          100.0%; Score 75; DB 10; Length 14;
Best Local Similarity 100.0%; Pred. No. 8.8e-07;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 SFSQNPVLRKHQR 14
Db 1 SFSQNPVLRKHQR 14
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RESULT 3
US-10-006-091-1
; Sequence 1, Application US/10006091
; Patent No. US20020102730A1
; GENERAL INFORMATION:
; APPLICANT: Cho, Myung-Sam
; APPLICANT: Chan, Sham-Yuen
; APPLICANT: Kelsey, William
; APPLICANT: Yee, Helena
; TITLE OF INVENTION: Expression System for Factor VIII
; FILE REFERENCE: MSB-7255.1
; CURRENT APPLICATION NUMBER: US/10/006,091
; CURRENT FILING DATE: 2001-12-06
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human factor VIII sequence
US-10-006-091-1
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Query Match          100.0%; Score 75; DB 12; Length 1438;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 1 SFSQNPVLRKHQR 14
Db 741 SFSQNPVLRKHQR 754
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RESULT 4
US-10-047-257-1
; Sequence 1, Application US/10047257
; Patent No. US20020115152A1
; GENERAL INFORMATION:
; APPLICANT: Cho, Myung-Sam
; APPLICANT: Chan, Sham-Yuen
; APPLICANT: Kelsey, William
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; APPLICANT: Yee, Helena
; TITLE OF INVENTION: Expression System for Factor VIII
; FILE REFERENCE: MSB-7255.2
; CURRENT APPLICATION NUMBER: US/10/047,257
; CURRENT FILING DATE: 2002-01-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1438
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Derived from
; OTHER INFORMATION: human factor VIII sequence
US-10-047-257-1
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Query Match          100.0%; Score 75; DB 12; Length 1438;
Best Local Similarity 100.0%; Pred. No. 0.00012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 741 SFSQNPVLRKHQR 754
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RESULT 5
US-09-957-641-2
; Sequence 2, Application US/09957641
; Publication No. US20020182670A1
; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: MODIFIED FACTOR VIII
; FILE REFERENCE: 75-00
; CURRENT APPLICATION NUMBER: US/09/957,641
; CURRENT FILING DATE: 2001-09-16
; PRIOR APPLICATION NUMBER: US 60/234047
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: US 60/236460
; PRIOR FILING DATE: 2000-09-29
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2
; LENGTH: 2332
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-957-641-2
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Query Match          86.7%; Score 65; DB 9; Length 2332;
Best Local Similarity 100.0%; Pred. No. 0.0091;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 3 SQNPVLRKHQR 14
Db 1637 SQNPVLRKHQR 1648
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RESULT 6
US-10-095-718-2
; Sequence 2, Application US/10095718
; Patent No. US20020131956A1
; GENERAL INFORMATION:
; APPLICANT: Walsh, Christopher
; APPLICANT: Chao, Hengjun
; APPLICANT: Burslein, Haim
; APPLICANT: Lynch, Carmel
; APPLICANT: Stepan, Tony
; APPLICANT: Munson, Keith
; TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and
; FILE REFERENCE: 35052/204375
; CURRENT APPLICATION NUMBER: US/10/095,718
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 09/689,430
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PRIOR FILING DATE: 2001-08-22  
PRIOR APPLICATION NUMBER: 60/158,780  
PRIOR FILING DATE: 1999-10-12  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO: 2  
LENGTH: 1471  
TYPE: PRT  
ORGANISM: Homo sapiens B-domain deleted factor VIII  
FEATURE:  
OTHER INFORMATION: Homo sapiens BDD FVIII  
US-10-095-718-2

Query Match 77.3%; Score 58; DB 12; Length 1471;  
Best Local Similarity 50.0%; Pred. No. 0.08; Indels 14; Gaps 1;  
Matches 14; Conservative 0; Mismatches 0;

Qy 1 SFSQN-----PPVLRHQR 14  
Db 760 SFSQNSRHPSTROKOFNATPPVLRHQR 767

RESULT 7  
US-09-748-062-30  
Sequence 30, Application US/09748062  
Patent No. US20010016340A1  
GENERAL INFORMATION:  
APPLICANT: CHAPMAN, BARBARA  
BURKE, RAE LYNN  
RASMUSSEN, MIRELLA EZBAN  
MIKELSON, JAN MOLLER  
TITLE OF INVENTION: PROTEIN COMPLEXES HAVING FACTOR VIII:C  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: REED & ROBINS  
STREET: 285 HAMILTON AVENUE, SUITE 200  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/748,062  
FILING DATE: 22-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/441,943  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 822,989  
FILING DATE: 27-JAN-1986  
ATTORNEY/AGENT INFORMATION:  
NAME: BAROVSKY, KENNETH  
REGISTRATION NUMBER: 36,442  
REFERENCE/DOCKET NUMBER: 2300-0048.10  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 327-3400  
TELEFAX: (415) 327-3231  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 34 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 30:  
US-09-748-062-30

Query Match 73.3%; Score 55; DB 10; Length 34;  
Best Local Similarity 41.2%; Pred. No. 0.0046;

Matches 14; Conservative 0; Mismatches 0; Indels 20; Gaps 1;  
Qy 1 SFSQN-----PPVLRHQR 14  
Db 1 SFSQNSRHPSTROKOFNATPPVLRHQR 34

RESULT 8  
US-09-748-062-34  
Sequence 34, Application US/09748062  
Patent No. US20010016340A1  
GENERAL INFORMATION:  
APPLICANT: CHAPMAN, BARBARA  
BURKE, RAE LYNN  
RASMUSSEN, MIRELLA EZBAN  
MIKELSON, JAN MOLLER  
TITLE OF INVENTION: PROTEIN COMPLEXES HAVING FACTOR VIII:C  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: REED & ROBINS  
STREET: 285 HAMILTON AVENUE, SUITE 200  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/748,062  
FILING DATE: 22-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/441,943  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 822,989  
FILING DATE: 27-JAN-1986  
ATTORNEY/AGENT INFORMATION:  
NAME: BAROVSKY, KENNETH  
REGISTRATION NUMBER: 36,442  
REFERENCE/DOCKET NUMBER: 2300-0048.10  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 327-3400  
TELEFAX: (415) 327-3231  
INFORMATION FOR SEQ ID NO: 34:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 34:  
US-09-748-062-34

Query Match 66.7%; Score 50; DB 10; Length 9;  
Best Local Similarity 100.0%; Pred. No. 9.8e+04;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 PPVLRHQR 14  
Db 1 PPVLRHQR 9

RESULT 9  
US-09-796-692-2429  
Sequence 2429, Application US/09796692  
Publication No. US20020198362A1  
GENERAL INFORMATION:  
APPLICANT: Gaiger, Alexander  
APPLICANT: Algate, Paul A.

APPLICANT: Mannion, Jane  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY  
FILE REFERENCE: 2077 001200  
CURRENT APPLICATION NUMBER: US/09/796,692  
CURRENT FILING DATE: 2001-03-01  
PRIOR APPLICATION NUMBER: 60/186,126  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: 60/190,479  
PRIOR FILING DATE: 2000-03-17  
PRIOR APPLICATION NUMBER: 60/200,545  
PRIOR FILING DATE: 2000-04-27  
PRIOR APPLICATION NUMBER: 60/200,303  
PRIOR FILING DATE: 2000-04-28  
PRIOR APPLICATION NUMBER: 60/200,779  
PRIOR FILING DATE: 2000-04-28  
PRIOR APPLICATION NUMBER: 60/200,999  
PRIOR FILING DATE: 2000-05-01  
PRIOR APPLICATION NUMBER: 60/202,084  
PRIOR FILING DATE: 2000-05-04  
PRIOR APPLICATION NUMBER: 60/206,201  
PRIOR FILING DATE: 2000-05-22  
PRIOR APPLICATION NUMBER: 60/218,950  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: 60/222,903  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: 60/223,416  
PRIOR FILING DATE: 2000-08-04  
PRIOR APPLICATION NUMBER: 60/223,378  
PRIOR FILING DATE: 2000-08-07  
NUMBER OF SEQ ID NOS: 9597  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2429  
LENGTH: 79  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: variant  
LOCATION: (1)...(79)  
OTHER INFORMATION: Xaa - Any amino acid  
US-09-796-692-2429

Query Match  
Best Local Similarity 50.7%; Score 38; DB 9; Length 79;  
Best Local Similarity 77.8%; Pred. No. 7.4;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 SFSQNPVL 9  
DB 43 SFSQNPVL 51

RESULT 10  
US-10-027-806-24  
Sequence 24, Application US/10027806  
Patent No. US20020160476A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Feldman, Robert A.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/027,806  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 24  
LENGTH: 269  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-027-806-24

Query Match  
Best Local Similarity 50.7%; Score 38; DB 9; Length 269;  
Best Local Similarity 63.6%; Pred. No. 27;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 QNPVYKRRHR 14  
DB 50 QNPVYKRRGR 60

RESULT 11  
US-10-034-623-24  
Sequence 24, Application US/10034623  
Publication No. US20020198365A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Feldman, Robert A.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/034,623  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: 1999-09-29  
PRIOR APPLICATION NUMBER: 60/102,294  
PRIOR FILING DATE: 1998-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 24  
LENGTH: 269  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-034-623-24

Query Match  
Best Local Similarity 50.7%; Score 38; DB 9; Length 269;  
Best Local Similarity 63.6%; Pred. No. 27;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 QNPVYKRRHR 14  
DB 50 QNPVYKRRGR 60

RESULT 12  
US-10-027-806-56  
Sequence 56, Application US/10027806  
Patent No. US20020160476A1  
GENERAL INFORMATION:  
APPLICANT: Swanson, Ronald V.  
APPLICANT: Feldman, Robert A.  
APPLICANT: Schleper, Christa  
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAUM SYMBIOSUM  
FILE REFERENCE: DCOIP.002A  
CURRENT APPLICATION NUMBER: US/10/027,806  
CURRENT FILING DATE: 2001-12-21  
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020  
PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29  
NUMBER OF SEQ ID NOS: 123  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 56  
LENGTH: 273  
TYPE: PRT  
ORGANISM: Cenarchaeum symbiosum  
US-10-027-806-56

Query Match  
Best Local Similarity 50.7%; Score 38; DB 9; Length 273;  
Best Local Similarity 63.6%; Pred. No. 28;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 QNPVYKRRHR 14  
DB 54 QNPVYKRRGR 64

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RESULT 13
US-10-034-623-56
; Sequence 56, Application US/10034623
; Publication No. US20020198365A1
; GENERAL INFORMATION:
; APPLICANT: Swanson, Ronald V.
; APPLICANT: Feldman, Robert A.
; APPLICANT: Schleper, Christa
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
; FILE REFERENCE: DCOB.002A
; CURRENT APPLICATION NUMBER: US/10/034,623
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/408,020
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/102,294
; PRIOR FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 273
; TYPE: PRT
; ORGANISM: Cenarchaeum symbiosum
US-10-034-623-56

Query Match          50.7%: Score 38; DB 9; Length 273;
Best Local Similarity 63.6%: Pred. No. 28;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 QNPVLRHR 14
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DB 54 QNPVLRGR 64

RESULT 14
US-09-765-298A-18
; Sequence 18, Application US/09765298A
; Patent No. US20020137017A1
; GENERAL INFORMATION:
; APPLICANT: ARONHEIM, AMI
; TITLE OF INVENTION: METHOD FOR DETECTION PROTEIN-PROTEIN INTERACTIONS AND A KIT THERE
; FILE REFERENCE: 108387.01
; CURRENT APPLICATION NUMBER: US/09/765,298A
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: IL 125456
; PRIOR FILING DATE: 1998-07-22
; PRIOR APPLICATION NUMBER: IL 128017
; PRIOR FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 684
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-765-298A-18

Query Match          50.7%: Score 38; DB 10; Length 684;
Best Local Similarity 87.5%: Pred. No. 73;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 NPEVLKRH 12
|||||
DB 295 NPEVLKRH 302

RESULT 15
US-09-887-593-2
; Sequence 2, Application US/09887593
; Patent No. US20020161212A1
; GENERAL INFORMATION:
; APPLICANT: Afari, Daniel E.
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.

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; APPLICANT: Saffran, Douglas C.
; APPLICANT: Jakobovits, Ava
; TITLE OF INVENTION: BPC-1: A SECRETED BRAIN-SPECIFIC PROTEIN EXPRESSED AND
; TITLE OF INVENTION: SECRETED BY PROSTATE AND BLADDER CANCER CELLS
; FILE REFERENCE: 1703-017.US1
; CURRENT APPLICATION NUMBER: US/09/887,593
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 09/374,135
; PRIOR FILING DATE: 1999-08-10
; PRIOR APPLICATION NUMBER: 60/095,982
; PRIOR FILING DATE: 1998-08-10
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 158
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-887-593-2

Query Match          49.3%: Score 37; DB 9; Length 158;
Best Local Similarity 63.6%: Pred. No. 23;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 QNPVLRHR 14
|||||:|
DB 121 QNPVLRSSGR 131

Search completed: January 5, 2003, 06:16:37
Job time : 19 secs

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GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 04:58:21 ; Search time 47.5 Seconds  
(without alignments)  
6462.809 Million cell updates/sec

Title: US-09-740-211-13\_COPY\_3000\_4000

Perfect score: 1001

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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapept 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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5: /cgn2\_6/ptodata/1/ina/PCTUS\_COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/Backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	1001	100.0	4629	US-08-484-891-7	Sequence 7, Appl1
2	1001	100.0	4670	US-08-717-294-41	Sequence 41, Appl1
3	1001	100.0	4999	US-09-470-618-14	Sequence 14, Appl1
4	1001	100.0	4999	US-09-364-862-14	Sequence 14, Appl1
5	1001	100.0	5035	US-08-882-083-1	Sequence 1, Appl1
6	1001	100.0	5035	US-08-558-107-1	Sequence 1, Appl1
7	1001	100.0	5035	US-09-243-539-1	Sequence 1, Appl1
8	1001	100.0	7056	US-08-121-202-1	Sequence 1, Appl1
9	1001	100.0	8241	US-08-366-851A-1	Sequence 1, Appl1
10	1001	100.0	8967	US-07-864-004B-3	Sequence 3, Appl1
11	1001	100.0	9009	US-08-251-937A-3	Sequence 3, Appl1
12	1001	100.0	9009	US-08-212-133A-1	Sequence 1, Appl1
13	1001	100.0	9009	US-08-474-503-1	Sequence 1, Appl1
14	1001	100.0	9009	US-08-670-707A-1	Sequence 1, Appl1
15	1001	100.0	9009	US-09-037-601-1	Sequence 1, Appl1
16	1001	100.0	9009	US-09-315-179-1	Sequence 1, Appl1
17	1001	100.0	9009	US-09-523-656-1	Sequence 1, Appl1
18	1001	100.0	9009	PCT-US93-03275-3	Sequence 3, Appl1
19	1001	100.0	9009	PCT-US94-13200-1	Sequence 1, Appl1
20	1001	100.0	9354	US-08-683-839B-2	Sequence 2, Appl1
21	1001	100.0	11933	US-09-470-618-13	Sequence 13, Appl1
22	1001	100.0	11933	US-09-364-862-13	Sequence 13, Appl1
23	1001	100.0	6999	US-08-276-594A-1	Sequence 1, Appl1
24	997.8	99.7	7032	US-09-324-867-1	Sequence 1, Appl1
25	858.6	85.8	7493	US-08-212-133A-7	Sequence 7, Appl1
26	831.4	83.1	7493	US-08-474-503-5	Sequence 5, Appl1
27	831.4	83.1	7493	US-08-474-503-5	Sequence 5, Appl1

28 831.4 83.1 7493 2 US-08-670-707A-5  
29 831.4 83.1 7493 4 US-09-037-601-5  
30 831.4 83.1 7493 4 US-09-315-179-5  
31 831.4 83.1 7493 5 PCT-US94-13200-5  
32 810.6 81.0 4404 4 US-09-523-656-37  
33 809 80.8 4334 2 US-08-670-707A-38  
34 809 80.8 4334 4 US-09-037-601-38  
35 809 80.8 4334 4 US-09-315-179-38  
36 809 80.8 6402 2 US-08-670-707A-36  
37 809 80.8 6402 4 US-09-037-601-36  
38 809 80.8 6402 4 US-09-315-179-36  
39 809 80.8 6402 4 US-09-523-656-29  
40 612.2 61.2 4451 3 US-08-717-294-42  
41 147.6 14.7 6909 2 US-08-804-196-1  
42 147.6 14.7 6909 2 US-08-658-340-1  
43 147.6 14.7 6909 3 US-08-746-111-26  
44 140 14.0 6585 3 US-08-746-111-4  
45 137.4 13.7 2012 4 US-09-149-476-132

#### ALIGNMENTS

RESULT 1  
US-08-484-891-7  
Sequence 7, Application US/08484891  
Patent No. 5935935  
GENERAL INFORMATION:  
APPLICANT: Connolly, Sheila  
APPLICANT: Kaleko, Michael  
APPLICANT: Smith, Theodore  
TITLE OF INVENTION: Adenoviral Vectors for  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan,  
ADDRESSEE: Cecchi, Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/484,891  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/218,335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074,920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24,025  
REFERENCE/DOCKET NUMBER: 271010-273  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4629 bases  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA primer  
FEATURE:  
NAME/KEY: Factor VIII cDNA with  
NAME/KEY: B domain deleted

Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 5, Appl1  
Sequence 37, Appl1  
Sequence 38, Appl1  
Sequence 38, Appl1  
Sequence 38, Appl1  
Sequence 36, Appl1  
Sequence 36, Appl1  
Sequence 36, Appl1  
Sequence 29, Appl1  
Sequence 42, Appl1  
Sequence 1, Appl1  
Sequence 1, Appl1  
Sequence 26, Appl1  
Sequence 4, Appl1  
Sequence 132, App

US-08-484-891-7

Query Match 100.0%; Score 1001; DB 2; Length 4629;  
 Best Local Similarity 100.0%; Pred. No. 5,6e-310;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGACACTAAATGAACATTTGGGACCTCTGGGGCCATATATAAGC 60  
 DB 2652 GCCCTTATACCGTGGAGACACTAAATGAACATTTGGGACCTCTGGGGCCATATATAAGC 2711  
 QY 61 AGAGTTGAAGATATATATCATGTAACTTTCAGAAATCAGGCTCTGTCCTATTCCT 120  
 DB 2712 AGAGTTGAAGATATATATCATGTAACTTTCAGAAATCAGGCTCTGTCCTATTCCT 2771  
 QY 121 CTATTCAGCCTTATTTCTTATATGAGGAAGATCAGAGCAGAGCAGACCTAGAAAAA 180  
 DB 2772 CTATTCAGCCTTATTTCTTATATGAGGAAGATCAGAGCAGAGCAGACCTAGAAAAA 2831  
 QY 181 CTTTGTCAAGCCTAATGAACCAAAACCTACTTTTGGAAAGTGCACATCATATGAGCACC 240  
 DB 2832 CTTTGTCAAGCCTAATGAACCAAAACCTACTTTTGGAAAGTGCACATCATATGAGCACC 2891  
 QY 241 CACTAAAGATAGTTTGACTGCAAAAGCCTGGCTTATTTCTGTATGTGACCTGAAAA 300  
 DB 2892 CACTAAAGATAGTTTGACTGCAAAAGCCTGGCTTATTTCTGTATGTGACCTGAAAA 2951  
 QY 301 AGATGTGCACTCAGGCTGATTTGACCCCTTCTGTGCTGCCACACTAACACTGAACCC 360  
 DB 2952 AGATGTGCACTCAGGCTGATTTGACCCCTTCTGTGCTGCCACACTAACACTGAACCC 3011  
 QY 361 TGCATCATGGGAGACAGTACAGTACAGGATTTGCTCTGTTTTCACCATCTTGATGA 420  
 DB 3012 TGCATCATGGGAGACAGTACAGTACAGGATTTGCTCTGTTTTCACCATCTTGATGA 3071  
 QY 421 GACCAAAAGCTGTACTCTCACTGAAAAATATGAAAGAACTGCAAGGCTCCCTGCAATAT 480  
 DB 3072 GACCAAAAGCTGTACTCTCACTGAAAAATATGAAAGAACTGCAAGGCTCCCTGCAATAT 3131  
 QY 481 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATGCTTCCATCAGATCAATGGCTACAT 540  
 DB 3132 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATGCTTCCATCAGATCAATGGCTACAT 3191  
 QY 541 AATGATACACTACCTGCTAGTAAATGCTCAGAGTCAAGGATGGATGGATGGATGGAT 600  
 DB 3192 AATGATACACTACCTGCTAGTAAATGCTCAGAGTCAAGGATGGATGGATGGATGGAT 3251  
 QY 601 CAGCATGGGAGACATGAACATCCATTCATTCATTCATTCATTCATTCATTCATTCAT 660  
 DB 3252 CAGCATGGGAGACATGAACATCCATTCATTCATTCATTCATTCATTCATTCATTCAT 3311  
 QY 661 ACGAAAAAAGAGAGTATTAATATGCTGACATCTCTATCCAGTGTGTTTGGAGC 720  
 DB 3312 ACGAAAAAAGAGAGTATTAATATGCTGACATCTCTATCCAGTGTGTTTGGAGC 3371  
 QY 721 AGTGAATGTTACCATCAAAAGCTGGAATTTGGGAGTGAATGCTTATTTGGAGCA 780  
 DB 3372 AGTGAATGTTACCATCAAAAGCTGGAATTTGGGAGTGAATGCTTATTTGGAGCA 3431  
 QY 781 TCTACATGCTGGGATGAGACACTTTTCTGTGTATGAGCAATATAGTGTACAGCTCCCT 840  
 DB 3432 TCTACATGCTGGGATGAGACACTTTTCTGTGTATGAGCAATATAGTGTACAGCTCCCT 3491  
 QY 841 GGGATGCTGTGACACATTTAGAGATTTTACAGTTTACAGTTTACAGTTTACAGTTT 900  
 DB 3492 GGGATGCTGTGACACATTTAGAGATTTTACAGTTTACAGTTTACAGTTTACAGTTT 3551  
 QY 901 GTGGGCCCCAAGGCTGAGCAGCTCATTTTCCGATCAATGCAATGCTGAGACACCA 960  
 DB 3552 GTGGGCCCCAAGGCTGAGCAGCTCATTTTCCGATCAATGCAATGCTGAGACACCA 3611  
 QY 961 GGAGCCCTTTTCTTGATCAAGGTGATCTGTGGCACCA 1001  
 DB 3612 GGAGCCCTTTTCTTGATCAAGGTGATCTGTGGCACCA 3652

## RESULT 2

US-08-717-294-41  
 ; Sequence 41, Application US/08717294  
 ; Patent No. 6114148

## GENERAL INFORMATION:

APPLICANT: SEED, BRIAN  
 APPLICANT: HAAS, JÜRGEN  
 TITLE OF INVENTION: HIGH LEVEL EXPRESSION OF  
 TITLE OF INVENTION: PROTEINS  
 NUMBER OF SEQUENCES: 110  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Clark & Elbing LLP  
 STREET: 176 Federal Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/717,294  
 FILING DATE: 20-SEP-1996  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER:

## FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Elbing, Karen L.  
 REGISTRATION NUMBER: 35,238  
 REFERENCE/DOCKET NUMBER: 00786/345001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617-428-0200  
 TELEFAX: 617-428-7045

## TELEX:

INFORMATION FOR SEQ ID NO: 41:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 4670 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA

US-08-717-294-41

Query Match 100.0%; Score 1001; DB 3; Length 4670;  
 Best Local Similarity 100.0%; Pred. No. 5,6e-310;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGACACTAAATGAACATTTGGGACCTCTGGGGCCATATATAAGC 60  
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 QY 61 AGAGTTGAAGATATATATCATGTAACTTTCAGAAATCAGGCTCTGTCCTATTCCT 120  
 DB 2738 AGAGTTGAAGATATATATCATGTAACTTTCAGAAATCAGGCTCTGTCCTATTCCT 2797  
 QY 121 CTATTCAGCCTTATTTCTTATATGAGGAAGATCAGAGCAGAGCAGACCTAGAAAAA 180  
 DB 2798 CTATTCAGCCTTATTTCTTATATGAGGAAGATCAGAGCAGAGCAGACCTAGAAAAA 2857  
 QY 181 CTTTGTCAAGCCTAATGAACCAAAACCTTACTTTTGGAAAGTGCACATCATATGAGCACC 240  
 DB 2858 CTTTGTCAAGCCTAATGAACCAAAACCTTACTTTTGGAAAGTGCACATCATATGAGCACC 2917  
 QY 241 CACTAAAGATAGTTTGACTGCAAAAGCCTGGCTTATTTCTGTATGTGACCTGAAAA 300  
 DB 2918 CACTAAAGATAGTTTGACTGCAAAAGCCTGGCTTATTTCTGTATGTGACCTGAAAA 2977  
 QY 301 AGATGTGCACTCAGGCTGATTTGACCCCTTCTGTGCTGCCACACTAACACTGAACCC 360



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Db 2978 AGATGTGACATCAGGCGTATGTGACCCCTTGTGTCGCCACATACACACTGSAACC 3037  
QY 361 TGTCTATGGGAGACAGTACAGATGATTTGCTCTGTTTTACCACTTTGATGA 420  
Db 3038 TGTCTATGGGAGACAGTACAGATGATTTGCTCTGTTTTACCACTTTGATGA 3097  
QY 421 GACCAAAAGCTGTCTCTACATGAAATATGAAAGAAAGACAGGCTCCCTGCAATAT 480  
Db 3098 GACCAAAAGCTGTCTCTACATGAAATATGAAAGAAAGACAGGCTCCCTGCAATAT 3157  
QY 481 CCAGATGGAAGATCCCATTTTAAAGAGATATGCTTCCATGCAATCAATGGCTACAT 540  
Db 3158 CCAGATGGAAGATCCCATTTTAAAGAGATATGCTTCCATGCAATCAATGGCTACAT 3217  
QY 541 AATGATACACTACCTGCTTATGATGCTGAGATCAAGAGATTCATGCTCTCT 600  
Db 3218 AATGATACACTACCTGCTTATGATGCTGAGATCAAGAGATTCATGCTCTCT 3277  
QY 601 CAGCATGGGACAGCATGAAACATCTTATTCATTTCAAGTGGACATGTTGCTACTGT 660  
Db 3278 CAGCATGGGACAGCATGAAACATCTTATTCATTTCAAGTGGACATGTTGCTACTGT 3337  
QY 661 ACAGAAAAAGAGAGATATAAATGCACTGTACATCTCTATCCAGGTGTTTTGAGAC 720  
Db 3338 ACAGAAAAAGAGAGATATAAATGCACTGTACATCTCTATCCAGGTGTTTTGAGAC 3397  
QY 721 AATGGAATGTTACATCCAAAGCTGGAATTTGGCGGTGCAATCCCTTATTTGGGAGCA 780  
Db 3398 AATGGAATGTTACATCCAAAGCTGGAATTTGGCGGTGCAATCCCTTATTTGGGAGCA 3457  
QY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATAGTGTGACACTCCCT 840  
Db 3458 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATAGTGTGACACTCCCT 3517  
QY 841 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGACA 900  
Db 3518 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGACA 3577  
QY 901 GTGGGCCCCCAAGCTGGCAGACTCATTTATTCGGGATCAATCATGCTGGAGACCAA 960  
Db 3578 GTGGGCCCCCAAGCTGGCAGACTCATTTATTCGGGATCAATCATGCTGGAGACCAA 3637  
QY 961 GGAGCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAA 1001  
Db 3638 GGAGCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAA 3678

RESULT 3  
US-09-470-618-14  
: Sequence 14, Application US/09470618  
: Patent No. 6200560  
: GENERAL INFORMATION:  
: APPLICANT: Couto, Linda B.  
: APPLICANT: Colosi, Peter C.  
: TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
: FILE REFERENCE: by Target Cells  
: CURRENT APPLICATION NUMBER: US/09/470,618  
: CURRENT FILING DATE: 1999-12-22  
: EARLIER APPLICATION NUMBER: 09/364,862  
: EARLIER FILING DATE: 1999-07-30  
: EARLIER APPLICATION NUMBER: 60/125,974  
: EARLIER FILING DATE: 1999-03-24  
: EARLIER APPLICATION NUMBER: 60/104,994  
: EARLIER FILING DATE: 1998-10-20  
: NUMBER OF SEQ ID NOS: 15  
: SOFTWARE: PatentIn Ver. 2.0  
: SEQ ID NO 14  
: LENGTH: 4999  
: TYPE: DNA  
: ORGANISM: Artificial Sequence  
: FEATURE:

: OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-470-618-14

Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 5,8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTATGACATTAATGAACATTTGGGACCTCTGGGGCCATATTAAGAC 60  
Db 3025 GCCCTTATACCGTATGACATTAATGAACATTTGGGACCTCTGGGGCCATATTAAGAC 3084  
QY 61 AGAAGTTGAAGATTAATATGATGTAATTTAGAAATCAGAGCCCTGCTCTATTCCTT 120  
Db 3085 AGAAGTTGAAGATTAATATGATGTAATTTAGAAATCAGAGCCCTGCTCTATTCCTT 3144  
QY 121 CTATTTAGCCCTTATTTCTTATGAGAAAGATCAGAGCAAGAGACAGAACTGAAAAA 180  
Db 3145 CTATTTAGCCCTTATTTCTTATGAGAAAGATCAGAGCAAGAGACAGAACTGAAAAA 3204  
QY 181 CTTTGTCAAGCCTTAATGAACCAAAACTTACTTTTGGAAAGTGAACATCATATGACACC 240  
Db 3205 CTTTGTCAAGCCTTAATGAACCAAAACTTACTTTTGGAAAGTGAACATCATATGACACC 3264  
QY 241 CACTAAGATGATGTTGACTGCAAAAGCCTGGCTTATTTCTGATGTTGACCTGAAAA 300  
Db 3265 CACTAAGATGATGTTGACTGCAAAAGCCTGGCTTATTTCTGATGTTGACCTGAAAA 3324  
QY 301 AGATGTGCACTCAGAGCCTGATGATGACCCCTTCTGCTGCGACACTTAACACTGAACC 360  
Db 3325 AGATGTGCACTCAGAGCCTGATGATGACCCCTTCTGCTGCGACACTTAACACTGAACC 3384  
QY 361 TGTCTATGGGAGAGAAAGTACAGAGAAATTTGCTCTGTTTTTCCACTCTTGTATGA 420  
Db 3385 TGTCTATGGGAGAGAAAGTACAGAGAAATTTGCTCTGTTTTTCCACTCTTGTATGA 3444  
QY 421 GACCAAAAGCTGTACTTCACTGAAATATGAAAGAAATGCAAGGCTCCCTGCAATAT 480  
Db 3445 GACCAAAAGCTGTACTTCACTGAAATATGAAAGAAATGCAAGGCTCCCTGCAATAT 3504  
QY 481 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATCGCTTCCATGCAATCAATGGCTACAT 540  
Db 3505 CCAGATGGAAGATCCCACTTTTAAAGAGATTTATCGCTTCCATGCAATCAATGGCTACAT 3564  
QY 541 AATGATACACTACCTGCTGTAGTAATGCTCAGAGATCAAGAGATTCGATGATCTGCT 600  
Db 3565 AATGATACACTACCTGCTGTAGTAATGCTCAGAGATCAAGAGATTCGATGATCTGCT 3624  
QY 601 CAGCATGGGACAGCAATGAAACATCATCTTATTCATTTCAATGAGACATGTTGCTGCT 660  
Db 3625 CAGCATGGGACAGCAATGAAACATCATCTTATTCATTTCAATGAGACATGTTGCTGCT 3684  
QY 661 ACAGAAAAAGAGAGATTAATGAAGCTGATCAATCTCATCCAGGCTTTTTTGGAG 720  
Db 3685 ACAGAAAAAGAGAGATTAATGAAGCTGATCAATCTCATCCAGGCTTTTTTGGAG 3744  
QY 721 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGTGGAATGCTTTATTTGGGAGCA 780  
Db 3745 AGTGAATATGTTACATCCAAAGCTGGAATTTGGCGGTGGAATGCTTTATTTGGGAGCA 3804  
QY 781 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATATGATGACATCCCT 840  
Db 3805 TCTACATGCTGGGATGAGACACTTTTCTGCTGTACAGCAATATGATGACATCCCT 3864  
QY 841 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGAGCA 900  
Db 3865 GGGAAATGCTTGTGACACATTAGAGATTTTCAGATTACAGCTTGAGACAAATATGAGCA 3924  
QY 901 GTGGGCCCCCAAGCTGGCAGACTCATTTATTCGGGATCAATCATGCTGGAGACCAA 960  
Db 3925 GTGGGCCCCCAAGCTGGCAGACTCATTTATTCGGGATCAATCATGCTGGAGACCAA 3984  
QY 961 GGAGCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAA 1001  
|||||

Db 3985 GGAGCCCTTTCTTGATCAAGGTGATCTGTTGGCACCAA 4025

RESULT 4  
US-09-364-862-14

; Sequence 14, Application US/09364862  
; Patent No. 6221349  
; GENERAL INFORMATION:  
; APPLICANT: Couto, Linda B.  
; APPLICANT: Coulo, Peter C.  
; TITLE OF INVENTION: ADEMO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII  
; TITLE OF INVENTION: BY TARGET  
; FILE REFERENCE: AVIGEN-03743  
; CURRENT APPLICATION NUMBER: US/09/364, 862  
; CURRENT FILING DATE: 1999-07-30  
; EARLIER APPLICATION NUMBER: 60/125, 974  
; EARLIER FILING DATE: 1999-03-24  
; EARLIER APPLICATION NUMBER: 60/104, 994  
; EARLIER FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 4999  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-364-862-14

Query Match 100.0%; Score 1001; DB 4; Length 4999;  
Best Local Similarity 100.0%; Pred. No. 5, 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTAACCGTGGACAACTAATGAACATTGGGAGCTCTGGGGCCATATTAAGC 60  
Db 3025 GCCCTTAACCGTGGACAACTAATGAACATTGGGAGCTCTGGGGCCATATTAAGC 3084  
QY 61 AGAGTTGAAGATATATCATGTAACCTTCAAGAACTGAGCCCTGCTGCTATTCCT 120  
Db 3085 AGAGTTGAAGATATATCATGTAACCTTCAAGAACTGAGCCCTGCTGCTATTCCT 3144  
QY 121 CTATTTAGCCTTATTTCTTATGAGAAATCAGAGCCAGAGCAGACAGACCTGAAAA 180  
Db 3145 CTATTTAGCCTTATTTCTTATGAGAAATCAGAGCCAGAGCAGACAGACCTGAAAA 3204  
QY 181 CTTTGTCAGGCTTAATGAACCAAACTTCTTTGGAAGTGAACATCATATGAGACC 240  
Db 3205 CTTTGTCAGGCTTAATGAACCAAACTTCTTTGGAAGTGAACATCATATGAGACC 3264  
QY 241 CACTAAAGATGAGTTGACTGCAAGCCCTGAGCTTATTTCTGATGTTGACCTGAAAA 300  
Db 3265 CACTAAAGATGAGTTGACTGCAAGCCCTGAGCTTATTTCTGATGTTGACCTGAAAA 3324  
QY 301 AGATGTCAGCTCAGGCTGATGAGCCCTTCTGCTGTCACACATCACTGAAACC 360  
Db 3325 AGATGTCAGCTCAGGCTGATGAGCCCTTCTGCTGTCACACATCACTGAAACC 3384  
QY 361 TGCATGTCGAGAGCAAGTGAAGCAAGATTTGCTGTTTTCACATCTTTGATGA 420  
Db 3385 TGCATGTCGAGAGCAAGTGAAGCAAGATTTGCTGTTTTCACATCTTTGATGA 3444  
QY 421 GACCAAAAGCTGTAATCTCACTGTAATAATATGAAGAAGCAAGGCTCCCTGCAATAT 480  
Db 3445 GACCAAAAGCTGTAATCTCACTGTAATAATATGAAGAAGCAAGGCTCCCTGCAATAT 3504  
QY 481 CCAGATGGAAGATCCACTTTTAAAGAAATATGCTTCCATGCAATCAATGGCTACAT 540  
Db 3505 CCAGATGGAAGATCCACTTTTAAAGAAATATGCTTCCATGCAATCAATGGCTACAT 3564  
QY 541 AATGATACACTACCTGCTAGTAATGCTGCAAGATCAAGATTCGATGATCTGCT 600  
Db 3565 AATGATACACTACCTGCTAGTAATGCTGCAAGATCAAGATTCGATGATCTGCT 3624

QY 601 CAGCATGGGAGCAATGAAGAAATCCATTCATTTCACTGAGCATGTTCTACTGT 660  
Db 3625 CAGCATGGGAGCAATGAAGAAATCCATTCATTTCACTGAGCATGTTCTACTGT 3684  
QY 661 ACAGAAAAAGAGAGTATTAATGAGCACTGTAACATCTCTATCCAGAGTGTGTTGAGAC 720  
Db 3685 ACAGAAAAAGAGAGTATTAATGAGCACTGTAACATCTCTATCCAGAGTGTGTTGAGAC 3744  
QY 721 AGTGAATGTTACCATCCAAAGCTGGAATTTGGGGGGGGAATGCTTATTTGGGAGCA 780  
Db 3745 AGTGAATGTTACCATCCAAAGCTGGAATTTGGGGGGGGAATGCTTATTTGGGAGCA 3804  
QY 781 TCTACATGCTGGGATGAGCACAATTTTCTGCTGTAACAGCAATAGTCTACACTCCCT 840  
Db 3805 TCTACATGCTGGGATGAGCACAATTTTCTGCTGTAACAGCAATAGTCTACACTCCCT 3864  
QY 841 GGGATGCTTCTGACACATTAAGATTTTACATTTACAGCTTCAAGCAATATGAGACA 900  
Db 3865 GGGATGCTTCTGACACATTAAGATTTTACATTTTACAGCTTCAAGCAATATGAGACA 3924  
QY 901 GTGGGGCCCAAGCTGGCAGACTTCATTTCCGGATCAATCAATGCTGGAGCACCAA 960  
Db 3925 GTGGGGCCCAAGCTGGCAGACTTCATTTCCGGATCAATCAATGCTGGAGCACCAA 3984  
QY 961 GGAGCCCTTTCTTGATCAAGTGGATCTTTGGCACCAA 1001  
Db 3985 GGAGCCCTTTCTTGATCAAGTGGATCTTTGGCACCAA 4025

RESULT 5  
US-08-882-083-1

; Sequence 1, Application US/08882083  
; Patent No. 5869292  
; GENERAL INFORMATION:  
; APPLICANT: VOORBERG, Johannes J.  
; TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
; NUMBER OF SEQUENCES: 17  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/882, 083  
; FILING DATE:  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/558, 107  
; FILING DATE: 13-NOV-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: ISACSON, John P.  
; REGISTRATION NUMBER: 33, 715  
; REFERENCE/DOCKET NUMBER: 30472/212  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)672-5300  
; TELEFAX: (202)672-5399  
; TELEX: 904136  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 5035 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS



QY 361 TGTCTATGGAGAGAGTACAGAGTATGCTCTGTTTTCACCATCTTGATGA 420  
Db 3616 TGTCTATGGAGAGAGTACAGAGTATGCTCTGTTTTCACCATCTTGATGA 3675  
QY 421 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAATGCAAGGCTCCCTGCAATAT 480  
Db 3676 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAATGCAAGGCTCCCTGCAATAT 3735  
QY 481 CCAGATGAGAGATCCACTTTTAAAGAAATATGCTCTGCTCATCATCAATGGCTCAT 540  
Db 3736 CCAGATGAGAGATCCACTTTTAAAGAAATATGCTCTGCTCATCATCAATGGCTCAT 3795  
QY 541 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATGCT 600  
Db 3796 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATGCT 3855  
QY 601 CAGCATGGGACGACATGAAATCCATCTTATTCATTTGACATGACATGCTGCT 660  
Db 3856 CAGCATGGGACGACATGAAATCCATCTTATTCATTTGACATGACATGCTGCT 3915  
QY 661 ACGAAAAAGAGAGATATAAATGAGCATGATCATCTGATCCAGGCTTTTGGAC 720  
Db 3916 ACGAAAAAGAGAGATATAAATGAGCATGATCATCTGATCCAGGCTTTTGGAC 3975  
QY 721 AGTGAATGTTACATCAAGCTGGAATTTGGGCTGGAATGCTTATGCGAGCA 780  
Db 3976 AGTGAATGTTACATCAAGCTGGAATTTGGGCTGGAATGCTTATGCGAGCA 4035  
QY 781 TCTCATGCTGGATGAGACACATTTTCTGCTGATACAGCAATAGTGTACAGCTCCCT 840  
Db 4036 TCTCATGCTGGATGAGACACATTTTCTGCTGATACAGCAATAGTGTACAGCTCCCT 4095  
QY 841 GGAATGAGCTCTGAGACATTAAGATTTTACAGATTACAGCTCAGAGCAATATGAGCA 900  
Db 4096 GGAATGAGCTCTGAGACATTAAGATTTTACAGATTACAGCTCAGAGCAATATGAGCA 4155  
QY 901 GTGGGCCCCAAAGCTGGCCAGACTTCAATTTTCGATCAATCAATGCTGGAGACCAA 960  
Db 4156 GTGGGCCCCAAAGCTGGCCAGACTTCAATTTTCGATCAATCAATGCTGGAGACCAA 4215  
QY 961 GGAGCCCTTTCTGATCAAGGTGATGCTGGACCAA 1001  
Db 4216 GGAGCCCTTTCTGATCAAGGTGATGCTGGACCAA 4256

RESULT 7  
US-09-243-539-1  
Sequence 1, Application US/09243539  
Patent No. 6130203  
GENERAL INFORMATION:  
APPLICANT: VOORBERG, Johannes J.  
TITLE OF INVENTION: HYBRID PROTEINS WITH MODIFIED ACTIVITY  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/243,539  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/558,107  
FILING DATE: 13-NOV-1995

ATTORNEY/AGENT INFORMATION:  
NAME: ISACSON, John P.  
REGISTRATION NUMBER: 33,715  
REFERENCE/DOCKET NUMBER: 30472/212  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)672-5300  
TELEFAX: (202)672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 5035 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 35..5017  
US-09-243-539-1

Query Match 100.0%; Score 1001; DB 3; Length 5035;  
Best local similarity 100.0%; Pred. No. 5.8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGGTGAGAACTAATGAACATTTGGACTCTGGGGCCATATATGAAGC 60  
Db 3256 GCCCTTATACCGGTGAGAACTAATGAACATTTGGAGCTCTGGGGCCATATATGAAGC 3315  
QY 61 AGAAGTTGAAGATATATATGATGTAATCTTCAAGAAATCAGAGCTCTGCTCCATTCCTT 120  
Db 3316 AGAAGTTGAAGATATATATGATGTAATCTTCAAGAAATCAGAGCTCTGCTCCATTCCTT 3375  
QY 121 CTAATGACCTTATATTTCTTATGAGAGATCAGAGCAAGAGCAAGCAACCTAGAAAAA 180  
Db 3376 CTAATGACCTTATATTTCTTATGAGAGATCAGAGCAAGAGCAAGCAACCTAGAAAAA 3435  
QY 181 CTTTTCAGAGCTAATGAACCAAACTTACTTTTGAAGAGTGAACATCATATGACACC 240  
Db 3436 CTTTTCAGAGCTAATGAACCAAACTTACTTTTGAAGAGTGAACATCATATGACACC 3495  
QY 241 CACTAAGATGAGTTGAGTGAAGAGCTGAGGCTTATTTCTGATGTTGACCTGGAANA 300  
Db 3496 CACTAAGATGAGTTGAGTGAAGAGCTGAGGCTTATTTCTGATGTTGACCTGGAANA 3555  
QY 301 AGATGTGACACTGAGGCTGATTTGGAACCCCTTCTGCTGCCACTAACACACTGAACCC 360  
Db 3556 AGATGTGACACTGAGGCTGATTTGGAACCCCTTCTGCTGCCACTAACACACTGAACCC 3615  
QY 361 TGTCTATGGAGAGAGTACAGTACAGGAATTTGCTCTGTTTTCACCATCTTGATGA 420  
Db 3616 TGTCTATGGAGAGAGTACAGTACAGGAATTTGCTCTGTTTTCACCATCTTGATGA 3675  
QY 421 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAATGCAAGGCTCCCTGCAATAT 480  
Db 3676 GACCAAAAGCTGTACTTCACTGAAATATGGAAGAAATGCAAGGCTCCCTGCAATAT 3735  
QY 481 CCAGATGAGAGATCCACTTTTAAAGAAATATGCTCTGCTCATCATCAATGGCTCAT 540  
Db 3736 CCAGATGAGAGATCCACTTTTAAAGAAATATGCTCTGCTCATCATCAATGGCTCAT 3795  
QY 541 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATGCT 600  
Db 3796 AATGATACACTTACCTGCTTACTGTAATGCTCAGATCAAAAGATGATGATGCT 3855  
QY 601 CAGCATGGGACGACATGAAATCCATCTTATTCATTTGACATGACATGCTGCT 660  
Db 3856 CAGCATGGGACGACATGAAATCCATCTTATTCATTTGACATGACATGCTGCT 3915  
QY 661 ACGAAAAAGAGAGATATAAATGAGCATGATCATCTGATCCAGGCTTTTGGAC 720  
Db 3916 ACGAAAAAGAGAGATATAAATGAGCATGATCATCTGATCCAGGCTTTTGGAC 3975  
QY 721 AGTGAATGTTACATCAAGCTGGAATTTGGGCTGGAATGCTTATGCGAGCA 780  
Db 4216 AGTGAATGTTACATCAAGCTGGAATTTGGGCTGGAATGCTTATGCGAGCA 4256



PROCESS FOR THEIR PREPARATION USING GENETICALLY-ENGINEERED CELLS  
AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM

NUMBER OF SEQUENCES: 12

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/205,226

FILING DATE: 10-JUN-1988

SEQ ID NO: 1

LENGTH: 8241

Query Match 100.0%; Score 1001; DB 6; Length 8241;

Best Local Similarity 100.0%; Pred. No. 7, 6e-310;

Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAATGAACATTTGGACTCCTGGGGCCATATATAGAGC 60  
DB 5298 GCCCTTATACCGTGGAGAACTAATGAACATTTGGACTCCTGGGGCCATATATAGAGC 5557  
QY 61 AGAAGTGAAGATATATCATGTAACTTTCAGAAATCAGGCTCTGCTATTCCTT 120  
DB 5358 AGAAGTGAAGATATATCATGTAACTTTCAGAAATCAGGCTCTGCTATTCCTT 5417  
QY 121 CTATTCAGCCTTATTTCTTATGAGAAATCAGAGCAAGAGAGAGAGAGAGAGAGAGAG 180  
DB 5418 CTATTCAGCCTTATTTCTTATGAGAAATCAGAGCAAGAGAGAGAGAGAGAGAGAGAG 5477  
QY 181 CTTTGTCAAGCCTTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGACAC 240  
DB 5478 CTTTGTCAAGCCTTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGACAC 5537  
QY 241 CACTTAAAGATAGTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAGAAA 300  
DB 5538 CACTTAAAGATAGTTGACTGCAAAAGCTGGGCTTATTTCTGATGTTGACCTGAGAAA 5597  
QY 301 AGATGTGACCTCAGGCTGATGAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 360  
DB 5598 AGATGTGACCTCAGGCTGATGAGAAATGAGAAATGAGAAATGAGAAATGAGAAATGAG 5657  
QY 361 TGCTCATGAG 420  
DB 5658 TGCTCATGAG 5717  
QY 421 GACCAAAAGCTGCTACTTCACTGAAATATGAGAAAGAGAGAGAGAGAGAGAGAGAGAG 480  
DB 5718 GACCAAAAGCTGCTACTTCACTGAAATATGAGAAAGAGAGAGAGAGAGAGAGAGAG 5777  
QY 481 CCAAGATGAGAGATGCTCTTTTAAAGAGATTTAGCTTCAATGCAATCAATGCTACAT 540  
DB 5778 CCAAGATGAGAGATGCTCTTTTAAAGAGATTTAGCTTCAATGCAATCAATGCTACAT 5837  
QY 541 AATGATACACTACCTGGCTTAAATGCTCAGAGATCAAGAGATTCGATGCTGCT 600  
DB 5838 AATGATACACTACCTGGCTTAAATGCTCAGAGATTCGATGCTGCTGCTGCT 5897  
QY 601 CAGCATGGGAG 660  
DB 5898 CAGCATGGGAG 5957  
QY 661 ACGAAAAAG 720  
DB 5958 ACGAAAAAG 6017  
QY 721 AGTGAAGATGTTACATCCAAAGCTGGAAATTTGGCGGTGGAATGCTTATTTGGCAGAG 780  
DB 6018 AGTGAAGATGTTACATCCAAAGCTGGAAATTTGGCGGTGGAATGCTTATTTGGCAGAG 6077  
QY 781 TCTACATGCTGGAGATGAGACACTTTTCTGCTGACAGCAATATGCTGACCTCCCT 840  
DB 6078 TCTACATGCTGGAGATGAGACACTTTTCTGCTGACAGCAATATGCTGACCTCCCT 6137  
QY 841 GGAAGAGGCTTGGAGACACTTGAAGATTTGATTAAGCTTCAAGAGCAATATGAGAG 900  
DB 6138 GGAAGAGGCTTGGAGACACTTGAAGATTTGATTAAGCTTCAAGAGCAATATGAGAG 6197

QY 901 GTGGCCCCCAAGCTGGAG 960  
DB 6198 GTGGCCCCCAAGCTGGAG 6257  
QY 961 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCAGCA 1001  
DB 6258 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCAGCA 6298

RESULT 10

US-08-366-851A-1

Sequence 1, Application US/08366851A

Patent No. 5681746

GENERAL INFORMATION:

APPLICANT: Bodner, Mordechai

APPLICANT: De Polo, Nicolas J.

APPLICANT: Hsu, David Chi-Tang

APPLICANT: Chang, Steven

TITLE OF INVENTION: Retroviral Delivery of Full Length Factor VIII

NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Viagene, Inc.

STREET: 11055 Roselle Street

CITY: San Diego

STATE: California

COUNTRY: U.S.A.

ZIP: 92121

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/366,851A

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Chambers, Daniel M.

REGISTRATION NUMBER: 34,561

REFERENCE/DOCKET NUMBER: 930049.438

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 452-1288

TELEFAX: (619) 452-2616

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 8967 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: unknown

MOLECULE TYPE: CDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 110..7165

US-08-366-851A-1

Query Match 100.0%; Score 1001; DB 1; Length 8967;

Best Local Similarity 100.0%; Pred. No. 8e-310;

Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAATGAACATTTGGACTCCTGGGGCCATATATAGAGC 60  
DB 5401 GCCCTTATACCGTGGAGAACTAATGAACATTTGGACTCCTGGGGCCATATATAGAGC 5460  
QY 61 AGAAGTGAAGATATATCATGTAACTTTCAGAAATCAGGCTCTGCTATTCCTT 120  
DB 5461 AGAAGTGAAGATATATCATGTAACTTTCAGAAATCAGGCTCTGCTATTCCTT 5520  
QY 121 CTATTCAGCCTTATTTCTTATGAGAAATCAGAGCAAGAGAGAGAGAGAGAGAGAGAG 180  
DB 5521 CTATTCAGCCTTATTTCTTATGAGAAATCAGAGCAAGAGAGAGAGAGAGAGAGAGAG 5580  
QY 181 CTTTGTCAAGCCTTATGAAACCAAACTTCTTTGAAAGTGCACATCATATATGACAC 240

Db	5581	CTTTGTCAACCCTAATGAAACCAAACCTACTTTTGGAAAGTGCACATCATATGACACC	5640
Qy	241	CACATAAGATGATGTTGACTGCAAAAGCTGGGCTTATTTCTCTGATGTTGACCTGGAAA	300
Db	5641	CACATAAGATGATGTTGACTGCAAAAGCTGGGCTTATTTCTCTGATGTTGACCTGGAAA	5700
Qy	301	AGATGTGACTACAGGGCTGATTTGGANCCCTTCTGGTCTGCCACACTAACAACGAAGCC	360
Db	5701	AGATGTGACTACAGGGCTGATTTGGANCCCTTCTGGTCTGCCACACTAACAACGAAGCC	5760
Qy	361	TGCTCATGGAGACAAGTGCACAGTACAGGAATTTGCTCTGTTTTACACATCTTTGATGA	420
Db	5761	TGCTCATGGAGACAAGTGCACAGTACAGGAATTTGCTCTGTTTTACACATCTTTGATGA	5820
Qy	421	GACCAAAAGCTGTGACTTCACTGAAAAATVWGAAGAAACATGCAGGGCTCCCTGCAATAT	480
Db	5821	GACCAAAAGCTGTGACTTCACTGAAAAATVWGAAGAAACATGCAGGGCTCCCTGCAATAT	5880
Qy	481	CCAGATGGAGATGCCACATTTTAAAGAAATTATGCTTCCATGCAATCAATGGCTACAT	540
Db	5881	CCAGATGGAGATGCCACATTTTAAAGAAATTATGCTTCCATGCAATCAATGGCTACAT	5940
Qy	541	AATGATATACACTACCTGGCTTAGTATGAGCTCAGATCAAGATGATGATGATGCT	600
Db	5941	AATGATATACACTACCTGGCTTAGTATGAGCTCAGATCAAGATGATGATGATGCT	6000
Qy	601	CAGATGGAGACAATGAAACATCATTCATTTCACTTCACTGAGACATGTTTCACTGT	660
Db	6001	CAGATGGAGACAATGAAACATCATTCATTTCACTTCACTGAGACATGTTTCACTGT	6060
Qy	661	ACGAAAAAAGAGAGATATAAAATGGGCTGTACATCTCTATCCAGGTGTTTTGAGAC	720
Db	6061	ACGAAAAAAGAGAGATATAAAATGGGCTGTACATCTCTATCCAGGTGTTTTGAGAC	6120
Qy	721	AGTGAATGTACATCCCAAAGCTGGAAATTTGGCGGGTGAATGCTTATTTGGGAGACA	780
Db	6121	AGTGAATGTACATCCCAAAGCTGGAAATTTGGCGGGTGAATGCTTATTTGGGAGACA	6180
Qy	781	TCTTCATGTGGGATGAGACACACTTTTTCGGGTGCACACAATTAAGTGCAGACTCCCT	840
Db	6181	TCTTCATGTGGGATGAGACACACTTTTTCGGGTGCACACAATTAAGTGCAGACTCCCT	6240
Qy	841	GGGAATGGCTTCTGGACACATTAGAGATTTTCAGATTTACAGCTTCAGGACAAATATGACA	900
Db	6241	GGGAATGGCTTCTGGACACATTAGAGATTTTCAGATTTACAGCTTCAGGACAAATATGACA	6300
Qy	901	GTGGAGCCCAAGTGGCCAGACTTCTATTTATTCGGATATAATCAATGCTGGAGACCAA	960
Db	6301	GTGGAGCCCAAGTGGCCAGACTTCTATTTATTCGGATATAATCAATGCTGGAGACCAA	6360
Qy	961	GGAGCCCTTTCTTGATVCAAGGTGGATVCTGTTGGACCAA 1001	
Db	6361	GGAGCCCTTTCTTGATVCAAGGTGGATVCTGTTGGACCAA 6401	

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1 MEDIUM TYPE: Floppy disk
2 COMPUTER: IBM PC compatible
3 OPERATING SYSTEM: PC-DOS/MS-DOS
4 SOFTWARE: PatentIn Release #1.0, Version #1.25
5
6 CURRENT APPLICATION DATA:
7 APPLICATION NUMBER: US/07/864,004B
8 FILING DATE: 07 APRIL 1992
9 CLASSIFICATION: 435
10 ATTORNEY/AGENT INFORMATION:
11 NAME: Padst, Patrea L.
12 REGISTRATION NUMBER: 31,284
13 REFERENCE/DOCKET NUMBER: EKW106
14 TELECOMMUNICATION INFORMATION:
15 TELEPHONE: 404-815-6508
16 TELEFAX: 404-815-6555
17 INFORMATION FOR SEQ ID NO: 3:
18 SEQUENCE CHARACTERISTICS:
19 LENGTH: 9009 base pairs
20 TYPE: nucleic acid
21 STRANDEDNESS: single
22 TOPOLOGY: linear
23 MOLECULE TYPE: cDNA
24 HYPOTHEetical: NO
25 ANTI-SENSE: NO
26 FRAGMENT TYPE: N-terminal
27 ORIGINAL SOURCE:
28 ORGANISM: Homo sapien
29 TISSUE TYPE: Liver
30 FEATURE:
31 NAME/KEY: misc_feature (Domain Structure)
32 LOCATION: 5001...7053
33 OTHER INFORMATION: /note="Equivalent to the A3-C1-C2
34 OTHER INFORMATION: domain"
35 FEATURE:
36 NAME/KEY: misc_feature (Domain Structure)
37 LOCATION: 1...2277
38 OTHER INFORMATION: /note="Equivalent to the A1-A2
39 OTHER INFORMATION: domain"
40
41 US-07-864-004B-3

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Query Match	Similarity	100.0%	Score 1001	DB 1	Length 9009
Best Local	Similarity	100.0%	Pred. No. 8e-310		
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					Gaps
					0
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Db	5442	GGCCCTTATACCGCTGGAGAACTAATGAACATTTGGGACTCTGGGGCCATATATAAGAC	5501		
QY	61	AGAACTTGAAGTAAATATATATGATGTACCTTCAGAAATTCAGGGCTCCGACCCATATCCGT	120		
Db	5502	AGAACTTGAAGTAAATATATGATGTACCTTCAGAAATTCAGGGCTCCGACCCATATCCGT	5561		
QY	121	CTATTCCTAGCCCTTATTTCTTATGAGAGATCAGAGCGCAAGAGCAGAACTTAGAAAAA	180		
Db	5562	CTATTCCTAGCCCTTATTTCTTATGAGAGATCAGAGCGCAAGAGCAGAACTTAGAAAAA	5621		
QY	181	CTTTGGCAAGCCCTAATGAACCAAACTACTTTTGGAAAGTGCACATCATATGGCACC	240		
Db	5622	CTTTGGCAAGCCCTAATGAACCAAACTACTTTTGGAAAGTGCACATCATATGGCACC	5681		
QY	241	CACATAAAGATGAGTTGACTGCAAAAGCCGGGCTTATTTCTCGATGTTGACCTGGAAA	300		
Db	5682	CACATAAAGATGAGTTGACTGCAAAAGCCGGGCTTATTTCTCGATGTTGACCTGGAAA	5741		
QY	301	AAGATGGCACTCAGGGCTGATTTGGACCCCTCGGGCTGCGCACACATACACACTGAAACC	360		
Db	5742	AAGATGGCACTCAGGGCTGATTTGGACCCCTCGGGCTGCGCACACATACACACTGAAACC	5801		
QY	361	TGCTCATGGAGAGACAAGTACAGTACAGGAATTTGCTCTGTTTTTCAACATCTTTGATGA	420		
Db	5802	TGCTCATGGAGAGACAAGTACAGTACAGGAATTTGCTCTGTTTTTCAACATCTTTGATGA	5861		
QY	421	GACCAAAACCTGGTACTTCACTGAATAATATGAAAAAAGAACTGAGGGCTCCCTGCAATAT	480		

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Db 5862 GACCAAAAGCTGTACTACTGAAATATGGAAGAACTGAGGCTCCCTGCATAT 5921  
OY 481 CCAGATGGAAGATCCACTTTTAAGAGAAATATGCTTCATGCATCATATGGCTCAT 540  
Db 5922 CCAATGGAAGATCCACTTTTAAGAGAAATATGCTTCATGCATCATATGGCTCAT 5981  
OY 541 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGATTCAGATGATCTGCT 600  
Db 5982 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGATTCAGATGATCTGCT 6041  
OY 601 CAGATGAGGAGCAATGAAACATCTTATTCATTCATTCAGATGATCTGCTGCT 660  
Db 6042 CAGATGAGGAGCAATGAAACATCTTATTCATTCATTCAGATGATCTGCTGCT 6101  
OY 661 ACGAAAAAGAGAGATATAATGACATCTTATTCATTCATTCAGATGATCTGCTGCT 720  
Db 6102 ACGAAAAAGAGAGATATAATGACATCTTATTCATTCATTCAGATGATCTGCTGCT 6161  
OY 721 AGTGAATATGTACATCAACAGCTGGAATTTGGCGGTGAATGCTTATTCAGATGAT 780  
Db 6162 AGTGAATATGTACATCAACAGCTGGAATTTGGCGGTGAATGCTTATTCAGATGAT 6221  
OY 781 TCTACATGCTGGATGAGCACTTTTCTGCTGATCAGCAATGATGATGATGATGAT 840  
Db 6222 TCTACATGCTGGATGAGCACTTTTCTGCTGATCAGCAATGATGATGATGATGAT 6281  
OY 841 GGAATGCTTCTGATCACTTATGATTTTCAATTCAGATGATGATGATGATGATGAT 900  
Db 6282 GGAATGCTTCTGATCACTTATGATTTTCAATTCAGATGATGATGATGATGATGAT 6341  
OY 901 GTGGGCCCCCAAGCTGCGCAGACTTATTCATTCATTCAGATGATGATGATGATGAT 960  
Db 6342 GTGGGCCCCCAAGCTGCGCAGACTTATTCATTCATTCAGATGATGATGATGATGAT 6401  
OY 961 GGAACCTTTTCTGATCACTTATGATTTTCAATTCAGATGATGATGATGATGAT 1001  
Db 6402 GGAACCTTTTCTGATCACTTATGATTTTCAATTCAGATGATGATGATGATGAT 6442

RESULT 12  
US-08-251-937A-3  
; Sequence 3, Application US/08251937A  
; Patent No. 5583209  
; GENERAL INFORMATION:  
; APPLICANT: Lollar, John S.  
; APPLICANT: Runge, Marshall S.  
; TITLE OF INVENTION: Hybrid Human/Porcine Factor VIII  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Kilpatrick & Cody  
; STREET: 1100 Peachtree Street  
; CITY: Atlanta  
; STATE: Georgia  
; COUNTRY: US  
; ZIP: 30309  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/251,937A  
; FILING DATE: 31-MAY-1994  
; CLASSIFICATION: 435  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: US 07/864,004  
; FILING DATE: 07-APR-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Pratt, John S.  
; REGISTRATION NUMBER: 29,476  
; REFERENCE/DOCKET NUMBER: EMU106DIV  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-815-6367  
TELEFAX: 404-815-6555  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 9009 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FRAGMENT TYPE: N-terminal  
; ORIGINAL SOURCE:  
; ORGANISM: Homo sapien  
; TISSUE TYPE: Liver  
; FEATURE:  
; NAME/KEY: misc\_feature (Domain Structure)  
; LOCATION: 5001..7053  
; OTHER INFORMATION: /note="Equivalent to the A3-C1-C2  
; OTHER INFORMATION: domain"  
; NAME/KEY: misc\_feature (Domain Structure)  
; LOCATION: 1..2277  
; OTHER INFORMATION: /note="Equivalent to the A1-A2  
; OTHER INFORMATION: domain"  
US-08-251-937A-3

Query Match 100.0%; Score 1001; DB 1; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCTTATACCTGAGAGAACTTAATGAACATTTGGAGCTCCTGGGGCCATATATAAGAGC 60  
Db 5442 GCCCTTATACCTGAGAGAACTTAATGAACATTTGGAGCTCCTGGGGCCATATATAAGAGC 5501  
OY 61 AGAAGTTGAAGATTAATCATGATGATGATGATGATGATGATGATGATGATGATGAT 120  
Db 5502 AGAAGTTGAAGATTAATCATGATGATGATGATGATGATGATGATGATGATGATGAT 5561  
OY 121 CTATCTGAGCTTATTTCTTATGAGAGATCAGAGCAAGAGCAAGAGCAAGAGCAAGAGCA 180  
Db 5562 CTATCTGAGCTTATTTCTTATGAGAGATCAGAGCAAGAGCAAGAGCAAGAGCAAGAGCA 5621  
OY 181 CTTTGTCAAGCTTAATGAACCAAACTTACTTTTGAAGATGCAACATCATATGAGCACC 240  
Db 5622 CTTTGTCAAGCTTAATGAACCAAACTTACTTTTGAAGATGCAACATCATATGAGCACC 5681  
OY 241 CACTAAGATGAGTTGACTGCAGAAAGCCTGGGCTTATTTCTGATGTTGACTGAGAAA 300  
Db 5682 CACTAAGATGAGTTGACTGCAGAAAGCCTGGGCTTATTTCTGATGTTGACTGAGAAA 5741  
OY 301 AGATGTCAGTCAGGCGCTGATGTTGACCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360  
Db 5742 AGATGTCAGTCAGGCGCTGATGTTGACCCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5801  
OY 361 TGCATGAGGAGAGCAAGTACAGTACAGAGAAATTTGCTGTTTTCACATCTTTGATGA 420  
Db 5802 TGCATGAGGAGAGCAAGTACAGTACAGAGAAATTTGCTGTTTTCACATCTTTGATGA 5861  
OY 421 GACCAAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480  
Db 5862 GACCAAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5921  
OY 481 CCAGATGGAAGATCCACTTTTAAGAGAAATATGCTTCATGCATCATATGGCTCAT 540  
Db 5922 CCAGATGGAAGATCCACTTTTAAGAGAAATATGCTTCATGCATCATATGGCTCAT 5981  
OY 541 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGATTCAGATGATCTGCTGCT 600  
Db 5982 AATGATACACTACTGCTGTAGTAATGCTCAGAGATCAAGATTCAGATGATCTGCTGCT 6041  
OY 601 CAGATGAGGAGCAATGAAACATCTTATTCATTCATTCAGATGATCTGCTGCTGCT 660



Db	6042	CAGCATGGGAGCAATGAAAAACATCCATCTTATCTATTCATTCAGTGACGAACTGTCACTGT	6101
Qy	661	ACGAAAAAAGAGAGCATGTATAAATGGCAGCTGTACAACTCTCTATCCAGGTGTTTGGAAAC	720
Db	6102	ACGAAAAAAGAGAGCATGTAAAAATGGCACGTGTACAACTCTCTATCCAGGTGTTTGGAAAC	6161
Qy	721	AGTGAATGTGTACCATCCAAAGCTGGAAATTTGGCGGGGAGATGGCTATTGGCGAGCA	780
Db	6162	AGTGAATGTGTACCATCCAAAGCTGGAAATTTGGCGGGGAGATGGCTATTGGCGAGCA	6222
Qy	781	TCTACATGCTGGAGTGAAGCACACTTTTTCGTGTGTACAGCAATTAAGTGCACAGCTCCCT	840
Db	6222	TCTACATGCTGGAGTGAAGCACACTTTTTCGTGTGTACAGCAATTAAGTGCACAGCTCCCT	6281
Qy	841	GGGAATGGCTTCTGACACATTAGAGATTTTCAGATTACAGCTTCAGGCAATATGAGCA	900
Db	6282	GGGAATGGCTTCTGACACATTAGAGATTTTCAGATTACAGCTTCAGGCAATATGAGCA	6341
Qy	901	GTGGGGCCCCAAGCTGGCCAGACTTCATTATTCGGATCAATCAAAAGCCTGGAGAGACCA	960
Db	6342	GTGGGGCCCCAAGCTGGCCAGACTTCATTATTCGGATCAATCAAAAGCCTGGAGAGACCA	6401
Qy	961	GGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGACCAA	1001
Db	6402	GGAGCCCTTTTCTTGATCAAGGTGATCTGTTGGACCAA	6442

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RESULT 13
US-08-212-133A-1
Sequence 1, Application US/08212133A
Patent No. 5653060
GENERAL INFORMATION:
APPLICANT: Lollar, John S.
APPLICANT: Runge, Marschall S.
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Kilpatrick & Cody
STREET: 100 Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: US
ZIP: 30303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/212.133A
FILING DATE: March 11, 1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/864,004
FILING DATE: 07-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: EMU/76677
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-572-6508
TELEFAX: 404-572-6555
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 9009 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHEetical: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapien

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?      TISSUE TYPE: Liver
?      FEATURE:
?      NAME/KEY: misc_feature (Domain Structure)
?      LOCATION: 5125 . . . 7053
?      OTHER INFORMATION: /note= "Equivalent to the A3-C1-C2
?      OTHER INFORMATION: domain"
?      FEATURE:
?      NAME/KEY: misc_feature (Domain Structure)
?      LOCATION: 1 . . . 2277
?      OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain."
?      FEATURE:
?      NAME/KEY: Domain
?      LOCATION: 1..2277
?      OTHER INFORMATION: /note= "cDNA encoding human factor
?      OTHER INFORMATION: VIII."
?      US-08-212-133A-1

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Query Match	100.0%;	Score 1001;	DB 1;	Length 9009;
Best Local Similarity	100.0%;	Pred. No. 8e-310;		
Matches 1001;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

OY	1	GCCTTTACCGGAGAACTAATATGACATTTGGACCTCGGGGCATTTATACAGC	60
Db	5442	GCCCTTTACCGGAGAACTAATATGACATTTGGACCTCGGGGCATTTATACAGC	5501
OY	61	AGAGTTGAAGATTAATATCATGCTTAACCTTTCGAAATCAGCGCTCTGTCCTATTCCCTT	120
Db	5502	AGAGTTGAAGATTAATATCATGCTTAACCTTTCGAAATCAGCGCTCTGTCCTATTCCCTT	5561
OY	121	CTATTCTAGCCTTATTTCTTATATGAGAAATATCAGAGCCAGAGACGAAACCTACAAAAA	180
Db	5562	CTATTCTAGCCTTATTTCTTATATGAGAAATATCAGAGCCAGAGACGAAACCTACAAAAA	5621
OY	181	CTTTGTCAAGCCTPATATGAACCAAAACCTTACTTTTGGAAAGTGCACATCATATGAGACC	240
Db	5622	CTTTGTCAAGCCTPATATGAACCAAAACCTTACTTTTGGAAAGTGCACATCATATGAGACC	5681
OY	241	CACATAAGATGAGTTTGACTGCTCAAAAGCCTGGGCTTATTTCTGTATGTTGACCTGGAAA	300
Db	5682	CACATAAGATGAGTTTGACTGCTCAAAAGCCTGGGCTTATTTCTGTATGTTGACCTGGAAA	5741
OY	301	AGATGTGCATCTCAGGCCTGATTTGGACCCCTTCTGGTCTGGCCACTAACAACATGAAGCC	360
Db	5742	AGATGTGCATCTCAGGCCTGATTTGGACCCCTTCTGGTCTGGCCACTAACAACATGAAGCC	5801
OY	361	TGCTCATGGGAGACAATGCACGTACAGGAATTTGCTGTTTTCACATCTTTGATGA	420
Db	5802	TGCTCATGGGAGACAATGCACGTACAGGAATTTGCTGTTTTCACATCTTTGATGA	5861
OY	421	GACCAAAAAGCTGTACTTCTACTGAAAAATATGAAAGAACTCAGAGGCTCCCTGCATAT	480
Db	5862	GACCAAAAAGCTGTACTTCTACTGAAAAATATGAAAGAACTCAGAGGCTCCCTGCATAT	5921
OY	481	CCAGATGGAAGATPCCCACTTTTAAAGAGATTAATGCTTCCATGCAATCAATGGCTACAT	540
Db	5922	CCAGATGGAAGATPCCCACTTTTAAAGAGATTAATGCTTCCATGCAATCAATGGCTACAT	5981
OY	541	AATGATPACATCTACCTGGCTTAGTAATAGGCTCAGATCAAAAGATTCATGGTATCTGCT	600
Db	5982	AATGATPACATCTACCTGGCTTAGTAATAGGCTCAGATCAAAAGATTCATGGTATCTGCT	6041
OY	601	CAGCATGGCGAGCAATGAAAAACATCATCTTATTCATTTACATGACATGTGTACTGT	660
Db	6042	CAGCATGGCGAGCAATGAAAAACATCATCTTATTCATTTACATGACATGTGTACTGT	6101
OY	661	ACGAAAAAABAGAGATATAAATGGCACGTATCATCTCTATCCAGAGTGTTTTGAAGC	720
Db	6102	ACGAAAAAABAGAGATATAAATGGCACGTATCATCTCTATCCAGAGTGTTTTGAAGC	6161
OY	721	AGTGAATGTTTACATTCCAAAGCTGGAATTTGGCGGAGATGCTTATTTGGCGAGCA	780
Db	6162	AGTGAATGTTTACATTCCAAAGCTGGAATTTGGCGGAGATGCTTATTTGGCGAGCA	6221

QY 781 TCTACATGCTGGATGACACACTTTTCTGTGTACAGCAATAGTGTACAGTCCCT 840  
Db 6222 TCTACATGCTGGATGACACACTTTTCTGTGTACAGCAATAGTGTACAGTCCCT 6281  
QY 841 GGAATGCTTCTGACACATTAGAGATTTTACAGTTTACAGCTTCAGACATATGACA 900  
Db 6282 GGAATGCTTCTGACACATTAGAGATTTTACAGTTTACAGCTTCAGACATATGACA 6341  
QY 901 GTGGCCCCCAAGCTGGCAGACTTCATTATTCGGATCAATCAATGCTGGACACCAA 960  
Db 6342 GTGGCCCCCAAGCTGGCAGACTTCATTATTCGGATCAATCAATGCTGGACACCAA 6401  
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Db 6402 GGAGCCCTTTCTTGATCAAGGTGGATCTGTGGACCAA 6442

RESULT 14  
US-08-474-503-1  
Sequence 1, Application US/08474503  
Patent No. 574446  
GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Kilpatrick & Cody  
STREET: 1100 Peachtree Street, Suite 2800  
CITY: Atlanta  
STATE: Georgia  
COUNTRY: US  
ZIP: 30309  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/474, 503  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Priatt, John S.  
REGISTRATION NUMBER: 29,476  
REFERENCE/DOCKET NUMBER: EMU106CIP(3)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 404-815-6500  
TELEFAX: 404-815-6555  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9009 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Homo sapien  
TISSUE TYPE: Liver  
FEATURE:  
NAME/KEY: misc\_feature (Domain Structure)  
LOCATION: 5125 . . . 7053  
OTHER INFORMATION: /note= "Equivalent to the A3-C1-C2  
OTHER INFORMATION: domain"  
FEATURE:  
NAME/KEY: misc\_feature (Domain Structure)  
LOCATION: 1 . . . 2277  
OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain."  
FEATURE:  
NAME/KEY: Domain  
LOCATION: 1..2277  
OTHER INFORMATION: /note= "cDNA encoding human factor

OTHER INFORMATION: VIII."  
US-08-474-503-1  
Query Match 100.0%; Score 1001; DB 1; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGCAATTAATGACATTTGGGACCTCGGGCCATATATAGAC 60  
Db 5442 GCCCTTATACCGTGGAGCAATTAATGACATTTGGGACCTCGGGCCATATATAGAC 5501  
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QY 241 CACTAAAGATGAGTTGACTGCAAAAGCTGGGCTTATTTCTGTGATGTTGACCTGAAA 300  
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QY 301 AGATGTGACACTAGGCTCTGATTTGAGACCCCTTCTGTCTGCCACACTAACACTAACC 360  
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QY 361 TGCTCATGGAGAGACAGTACAGTACAGATTTGCTGTTTCCACATCTTATGATGA 420  
Db 5802 TGCTCATGGAGAGACAGTACAGTACAGATTTGCTGTTTCCACATCTTATGATGA 5861  
QY 421 GACCAAAAGCTGTACTTCTACCTGAATATGAAAGAAACCTGACGGCTCCCTGCAATAT 480  
Db 5862 GACCAAAAGCTGTACTTCTACCTGAATATGAAAGAAACCTGACGGCTCCCTGCAATAT 5921  
QY 481 CCAGATGGAAGATCCCACTTTTAAAGAGAAATATGCTTCCATGGAATCAATAGGTACT 540  
Db 5922 CCAGATGGAAGATCCCACTTTTAAAGAGAAATATGCTTCCATGGAATCAATAGGTACT 5981  
QY 541 AATGATACACTACCTGCTTATGATGCTCAGATCAAAAGATTCATGATCTCTCT 600  
Db 5982 AATGATACACTACCTGCTTATGATGCTCAGATCAAAAGATTCATGATCTCTCT 6041  
QY 601 CAGCATGGCAGCATGAATCAATCCATCTATTTCACTTCACTGACATGTTCTACTGT 660  
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QY 661 ACGAAAAAAGAGAGATTAATTAATGAGCTGTACATCTTATCCAGGTGTTTTGAGAC 720  
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QY 721 AGTGAATATGTTACATCCAAAGCTGATTTGGGGGTGAATGCTTATTTGGGAGCA 780  
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QY 781 TCTACATGCTGGATGAGCAGACTTTTCTGTGTACAGCAATAGTGTACAGTCCCT 840  
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RESULT 15  
US-08-670-707A-1  
Sequence 1, Application US/08670707A  
Patent No. 5859204  
GENERAL INFORMATION:  
APPLICANT: Lollar, John S.  
TITLE OF INVENTION: Hybrid Human/Animal Factor VIII  
NUMBER OF SEQUENCES: 40  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.  
STREET: 5370 Manhattan Circle Suite 201  
CITY: Boulder  
STATE: Colorado  
COUNTRY: USA  
ZIP: 80303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/670,707A  
FILING DATE: 26-JUN-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: WO PCT/US94/13200  
FILING DATE: 15-NOV-1994  
APPLICATION NUMBER: US 08/212,133  
FILING DATE: 11-MAR-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/864,004  
FILING DATE: 07-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Greenlee, Lorraine L.  
REGISTRATION NUMBER: 27,894  
REFERENCE/DOCKET NUMBER: 75-95F  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 303/499-8080  
TELEFAX: 303/499-8089  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9009 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: not relevant  
MOLECULE TYPE: cDNA to mRNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
TISSUE TYPE: Liver  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: 5125..7053  
OTHER INFORMATION: /product= "Domain Structure"  
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FEATURE:  
NAME/KEY: misc feature  
LOCATION: 1..2277  
OTHER INFORMATION: /product= "Domain Structure"  
OTHER INFORMATION: /note= "Equivalent to the A1-A2 domain"  
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US-08-670-707A-1

Query Match 100.0%; Score 1001; DB 2; Length 9009;

Best Local Similarity 100.0%; Pred. No. 8e-310;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGCCCTTACCGTGAGAACTAATGACATTTGGGACCTCTGGGCGCATATATAGAGC	60
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QY	61	AGAAAGTGAAGATATATATGAGTAACTTTCAGAAATCAGAGCCCTGCTGCTTCTT	120
Db	5502	AGAAAGTGAAGATATATATGAGTAACTTTCAGAAATCAGAGCCCTGCTGCTTCTT	5561
QY	121	CTATTTAGCCCTTATTTCTTATGAGAAATCAGAGCAAGAGCAAGCAACTAGAAAAA	180
Db	5562	CTATTTAGCCCTTATTTCTTATGAGAAATCAGAGCAAGAGCAAGCAACTAGAAAAA	5621
QY	181	CTTTGTACAGCTTAATGAAACCAAACTTCTTTGGAAGTGCACATCATATGCGACC	240
Db	5622	CTTTGTACAGCTTAATGAAACCAAACTTCTTTGGAAGTGCACATCATATGCGACC	5681
QY	241	CACATAAGATGAGTTGACTGCAAAAGCGCTGCTATTTCTGATGTTGACCTGAAAA	300
Db	5682	CACATAAGATGAGTTGACTGCAAAAGCGCTGCTATTTCTGATGTTGACCTGAAAA	5741
QY	301	AGATGTCACTCAAGGCTGATGAGCCCTTGTGCTGCCACATGACACTGAAACC	360
Db	5742	AGATGTCACTCAAGGCTGATGAGCCCTTGTGCTGCCACATGACACTGAAACC	5801
QY	361	TGCTCATGGGAGACAACTGACAGAGAAATTTGCTGCTGCTTTTTCACATCTTGATGA	420
Db	5802	TGCTCATGGGAGACAACTGACAGAGAAATTTGCTGCTGCTTTTTCACATCTTGATGA	5861
QY	421	GACCAAAAGCTGTACTCTGATGAAATATGAGAAAGCAAGGCTCCCTGCAATAT	480
Db	5862	GACCAAAAGCTGTACTCTGATGAAATATGAGAAAGCAAGGCTCCCTGCAATAT	5921
QY	481	CCAGATGAAGATCCACTTTTAAAGAAATATGCTTCCATGCAATATGCTTACAT	540
Db	5922	CCAGATGAAGATCCACTTTTAAAGAAATATGCTTCCATGCAATATGCTTACAT	5981
QY	541	AATGATACACTACCTGCTAGTAATGCTCGAGATCAAAAGATTCGATGATGCT	600
Db	5982	AATGATACACTACCTGCTAGTAATGCTCGAGATCAAAAGATTCGATGATGCT	6041
QY	601	CAGCATGGGAGCAATGAAACATCATCTATTCATTTGAGTACATGCTTCACTGT	660
Db	6042	CAGCATGGGAGCAATGAAACATCATCTATTCATTTGAGTACATGCTTCACTGT	6101
QY	661	ACGAAAAAAGAGGATATATAATGCGATGACATCTATTCAGAGTCTTTTGGAGC	720
Db	6102	ACGAAAAAAGAGGATATATAATGCGATGACATCTATTCAGAGTCTTTTGGAGC	6161
QY	721	AGTGAATGCTTACATCCAAAGCTGGAATTTGGCGGTGGAATGCTTTTGGCGACA	780
Db	6162	AGTGAATGCTTACATCCAAAGCTGGAATTTGGCGGTGGAATGCTTTTGGCGACA	6221
QY	781	TCTACATGCTGGATGAGACACTTTTCTGCTGATACAGCAATAAGTGCAGCTCCCT	840
Db	6222	TCTACATGCTGGATGAGACACTTTTCTGCTGATACAGCAATAAGTGCAGCTCCCT	6281
QY	841	GGGAATGCTTCTGACACATTTAGAGATTTTACAGTTTACAGCTTTCAGACAAATATGACA	900
Db	6282	GGGAATGCTTCTGACACATTTAGAGATTTTACAGTTTACAGCTTTCAGACAAATATGACA	6341
QY	901	GTGGGCCCAAGCTGCGCAGACTTCTTTCGCGATCAATCAATCCCTGAGACCAA	960
Db	6342	GTGGGCCCAAGCTGCGCAGACTTCTTTCGCGATCAATCAATCCCTGAGACCAA	6401
QY	961	GGAGCCCTTTCTTGATCAAGGTGATCTGTGGCACCAC 1001	
Db	6402	GGAGCCCTTTCTTGATCAAGGTGATCTGTGGCACCAC 6442	

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Thu Jan 9 10:11:47 2003

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Page 14

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Perfect score: 1001

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Scoring table: IDENTITY\_NUC  
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Searched: 381593 seqs, 216252194 residues

Total number of hits satisfying chosen parameters: 763186

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications\_NA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
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2	1001	100.0	4999	9	US-10-007-968-14
3	1001	100.0	4999	10	US-09-740-211-14
4	1001	100.0	7944	12	US-10-095-718-1
5	1001	100.0	9009	9	US-09-957-641-1
6	1001	100.0	11933	9	US-10-007-968-13
7	1001	100.0	11933	10	US-09-740-211-13
8	857	85.6	7914	12	US-10-095-718-3
9	147.6	14.7	6909	10	US-09-880-107-2275
10	135	13.5	3321	9	US-09-970-966-115
11	135	13.5	3321	10	US-09-825-294-175
12	135	13.5	3321	10	US-09-880-107-2253
13	106	10.6	3700	10	US-09-917-800A-1539
14	69.2	6.9	357	10	US-09-960-352-13850
15	64.8	6.5	389	9	US-09-960-352-12959
16	60.6	6.1	406	9	US-10-042-125A-46
17	60.6	6.1	429	9	US-10-046-935-349
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19	48.4	4.8	241	10	US-09-604-287A-354

C 20	48.4	4.8	241	12	US-10-007-805-354	Sequence 354, App
C 21	44.6	4.5	404	10	US-09-778-320-132	Sequence 132, App
C 22	44.6	4.5	404	10	US-09-910-668-132	Sequence 132, App
C 23	44.6	4.5	404	12	US-10-010-742-132	Sequence 132, App
C 24	43.4	4.3	234	10	US-09-960-352-2767	Sequence 2767, App
C 25	41.2	4.1	236	10	US-09-960-352-5174	Sequence 5174, App
C 26	40.8	4.1	596	10	US-09-864-864-114	Sequence 114, App
C 27	40.0	4.0	597	10	US-09-764-847-129	Sequence 129, App
C 28	37.6	3.8	519	9	US-09-736-457-1295	Sequence 1295, App
C 29	37.6	3.8	519	9	US-09-954-531-1028	Sequence 1028, App
C 30	37.6	3.8	519	9	US-09-902-941-1255	Sequence 1255, App
C 31	37.6	3.8	519	9	US-09-902-941-1295	Sequence 1295, App
C 32	37.6	3.8	519	9	US-09-849-626-1295	Sequence 1295, App
C 33	37.6	3.8	519	9	US-09-849-626-1295	Sequence 1295, App
C 34	36.6	3.7	8907	9	US-09-738-626-934	Sequence 934, App
C 35	35.8	3.6	497	10	US-09-783-590-5767	Sequence 5767, App
C 36	34.8	3.5	359	9	US-09-954-531-1028	Sequence 1028, App
C 37	34.6	3.5	405	10	US-09-960-352-12433	Sequence 12433, App
C 38	34.2	3.4	778	10	US-09-910-943-554	Sequence 554, App
C 39	34	3.4	197997	10	US-09-822-246-3	Sequence 3, App11
C 40	33.8	3.4	3381	10	US-09-815-242-4318	Sequence 4318, App
C 41	33.8	3.4	3477	10	US-09-815-242-8424	Sequence 8424, App
C 42	33.6	3.4	1503841	9	US-09-946-807-1	Sequence 1, App11
C 43	33.6	3.4	1503841	10	US-09-795-668-1	Sequence 1, App11
C 44	33.6	3.4	1503841	10	US-09-795-668-1	Sequence 1, App11
C 45	33	3.3	259	10	US-09-777-564-1384	Sequence 1384, App

#### ALIGNMENTS

RESULT 1  
US-09-150-811-7  
GENERAL INFORMATION:  
APPLICANT: Connelly, Sheila  
Smith, Theodore  
TITLE OF INVENTION: Adenoviral Vectors for Treatment of Hemophilia  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein  
STREET: 6 Becker Farm Road  
CITY: Roseland  
STATE: New Jersey  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch diskette  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/150, 811  
FILING DATE: 10-Sep-1998  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/484, 891  
FILING DATE: 07-JUN-1995  
APPLICATION NUMBER: 08/218, 335  
FILING DATE: 25-MAR-1994  
APPLICATION NUMBER: 08/074, 920  
FILING DATE: 10-JUN-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Olstein, Elliot M.  
REGISTRATION NUMBER: 24, 025  
REFERENCE/DOCKET NUMBER: 271010-440  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 973-994-1700  
TELEFAX: 973-994-1744  
SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
US-09-150-811-7  
Query Match 100.0%; Score 1001; DB 10; Length 4629;

Best Local Similarity 100.0%; Pred. No. 2.5e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 2712 AGAAGTTGAAGAT 2771  
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 Db 2772 CTATCTACGCTTATTTCTTATATAGAGATCAGAGGCAAGAGCAAGCAATAGAAAAA 2831  
 QY 181 CTTTGTCAACCTTATATGAACCAAACTTCTTTGGAAAGTGCACATCATATATATATATATAT 240  
 Db 2832 CTTTGTCAACCTTATATGAACCAAACTTCTTTGGAAAGTGCACATCATATATATATATATAT 2891  
 QY 241 CACTAAGATGAGTTTGTACTGCAAGAGCTGGGCTTATTTCTGTATGTGACCTGGAAAA 300  
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 QY 301 AGATGTGACCTGAGGCTGATTTGGAGCCCTTCTGTCTGTGCTGACACTAACAACCTGACCC 360  
 Db 2952 AGATGTGACCTGAGGCTGATTTGGAGCCCTTCTGTCTGTGCTGACACTAACAACCTGACCC 3011  
 QY 361 TGTCTATGAGGAGACAAGTACAGATGCAAGATTTGCTGTTTGTATTTTACCATCTTTGATGA 420  
 Db 3012 TGTCTATGAGGAGACAAGTACAGATGCAAGATTTGCTGTTTGTATTTTACCATCTTTGATGA 3071  
 QY 421 GACCAAAAGCTGCTACTCTACGTAAGATATGCAAGAAAGCTGAGGCTCCCTGCAATAT 480  
 Db 3072 GACCAAAAGCTGCTACTCTACGTAAGATATGCAAGAAAGCTGAGGCTCCCTGCAATAT 3131  
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 QY 961 GGAGGCTTTTCTTGGATCAAGCTGATCTGTGGCACCAC 1001  
 Db 3612 GGAGGCTTTTCTTGGATCAAGCTGATCTGTGGCACCAC 3652

RESULT 2

US-10-007-968-14  
 ; Sequence 14, Application US/10007968  
 ; Patent No. US2002015977A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Couto, Linda B.  
 ; APPLICANT: Colosi, Peter C.  
 ; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
 ; FILE REFERENCE: Avigen-04082  
 ; CURRENT FILING DATE: 2001-12-13  
 ; PRIOR FILING DATE: 2000-12-18  
 ; PRIOR FILING DATE: 2000-12-18  
 ; PRIOR APPLICATION NUMBER: 60/125,974  
 ; PRIOR FILING DATE: 1999-03-24  
 ; PRIOR APPLICATION NUMBER: 60/104,994  
 ; PRIOR FILING DATE: 1998-10-20  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 14  
 ; LENGTH: 4999  
 ; TYPE: DNA  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 US-10-007-968-14

Query Match 100.0%; Score 1001; DB 9; Length 4999;  
 Best Local Similarity 100.0%; Pred. No. 2.6e-299;  
 Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGAGCTCCCTGGGCAATATATAGAGC 60  
 Db 3025 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGAGCTCCCTGGGCAATATATAGAGC 3084  
 QY 61 AGAAGTTGAAGAT 120  
 Db 3085 AGAAGTTGAAGAT 3144  
 QY 121 CTATCTACGCTTATTTCTTATATAGAGATCAGAGGCAAGAGCAAGCAATAGAAAAA 180  
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 QY 181 CTTTGTCAACCTTATATGAACCAAACTTCTTTGGAAAGTGCACATCATATATATATATATAT 240  
 Db 3205 CTTTGTCAACCTTATATGAACCAAACTTCTTTGGAAAGTGCACATCATATATATATATATAT 3264  
 QY 241 CACTAAGATGAGTTTGTACTGCAAGAGCTGGGCTTATTTCTGTATGTGACCTGGAAAA 300  
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 QY 301 AGATGTGACCTGAGGCTGATTTGAGCCCTTCTGCTGACACATCAATCAATGAGCAACCC 360  
 Db 3325 AGATGTGACCTGAGGCTGATTTGAGCCCTTCTGCTGACACATCAATCAATGAGCAACCC 3384  
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 QY 541 AATGATACACTACTGCTTAT 600  
 Db 3565 AATGATACACTACTGCTTAT 3624  
 QY 601 CAGCATGGGAGAGATGAAAGCAATCATCTTCTATTTCACTTGCAGATGCTTCACTGT 660



PRIOR APPLICATION NUMBER: 60/158,780  
PRIOR FILING DATE: 1999-10-12  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 7944  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Plasmid pDLZ6 encoding Homo sapiens BDD FVIII  
NAME/KEY: CDS  
LOCATION: (420)...(4835)  
US-10-095-718-1

Query Match 100.0%; Score 1001; DB 12; Length 7944;  
Best Local Similarity 100.0%; Pred. No. 3.4e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGAGAACTAATGAACATTTGGGACTCCTGGGCCATATATAGAGC 60  
DB 3071 GCCCTTATACCGTGAGAACTAATGAACATTTGGGACTCCTGGGCCATATATAGAGC 3130  
QY 61 AGAAGTTGAAGATATATCATGTGTAAGTTCAGAAATCAGGCCCTGCTCCATTCCTT 120  
DB 3131 AGAAGTTGAAGATATATCATGTGTAAGTTCAGAAATCAGGCCCTGCTCCATTCCTT 3190  
QY 121 CTATTTCTAGCCTTTCTTTCTTTATGAGAAATCAGAGCAAGGACCAACCTGAAAAA 180  
DB 3191 CTATTTCTAGCCTTTCTTTCTTTATGAGAAATCAGAGCAAGGACCAACCTGAAAAA 3250  
QY 181 CTTTGTCAAGCCTAATGAACCAAACTTCTTTTGAAGTGCACATCATATGCGACC 240  
DB 3251 CTTTGTCAAGCCTAATGAACCAAACTTCTTTTGAAGTGCACATCATATGCGACC 3310  
QY 241 CACTTAAGATAGTTTACTGACCAAGCCTGGCTTATTTCTGTATTTGACCTGAAAA 300  
DB 3311 CACTTAAGATAGTTTACTGACCAAGCCTGGCTTATTTCTGTATTTGACCTGAAAA 3370  
QY 301 AGATGTGCACTCAGGCGCTGATTTGGACCCCTTCTGTCGACACATTAACACAGAACCC 360  
DB 3371 AGATGTGCACTCAGGCGCTGATTTGGACCCCTTCTGTCGACACATTAACACAGAACCC 3430  
QY 361 TGTCTATGGAGACAGTACAGTACAGAAATTTGCTCTGTTTTCACCATCTTTTGATGA 420  
DB 3431 TGTCTATGGAGACAGTACAGTACAGAAATTTGCTCTGTTTTCACCATCTTTTGATGA 3490  
QY 421 GACCAAAAGCTGTACTTCTACCTGAAATATGAGAAAGAACTGCAAGGCTCCCTGCAATAT 480  
DB 3491 GACCAAAAGCTGTACTTCTACCTGAAATATGAGAAAGAACTGCAAGGCTCCCTGCAATAT 3550  
QY 481 CCAGATGGAAGATCCACTTTTAAAGAAATTTGCTTCATGCAATGGAATGCTATCAT 540  
DB 3551 CCAGATGGAAGATCCACTTTTAAAGAAATTTGCTTCATGCAATGGAATGCTATCAT 3610  
QY 541 AATGATATACACTGCTGCTAGTAATGCTCAGAGTCAAGAGATTCGATGCTATGCT 600  
DB 3611 AATGATATACACTGCTGCTAGTAATGCTCAGAGTCAAGAGATTCGATGCTATGCT 3670  
QY 601 CAGCATGGGACGCAATGAAATCATCTTCTATTCATTTTATGAGACATGTTTCACTGT 660  
DB 3671 CAGCATGGGACGCAATGAAATCATCTTCTATTCATTTTATGAGACATGTTTCACTGT 3730  
QY 661 ACGAAAAAGAGAGATATATATGCACTGTACATCTCTATTCAGAGTCTTTTGGAGC 720  
DB 3731 ACGAAAAAGAGAGATATATATGCACTGTACATCTCTATTCAGAGTCTTTTGGAGC 3790  
QY 721 AGTGAATATTTTACATCAAGAGTGAATTTGGGGGGAATGCTTATTTGGCAGAGA 780  
DB 3791 AGTGAATATTTTACATCAAGAGTGAATTTGGGGGGAATGCTTATTTGGCAGAGA 3850  
QY 781 TTTACATGCTGGGATGACACCTTTTCTGTGTACAGAAATTAAGTTCAGCTCCCT 840  
DB 840 TTTACATGCTGGGATGACACCTTTTCTGTGTACAGAAATTAAGTTCAGCTCCCT 840

DB 3851 TTTACATGCTGGGATGACACCTTTTCTGTGTACAGAAATTAAGTTCAGCTCCCT 3910  
QY 841 GGGAAATGGCTTGGACACATTTAGATTTTACATGAGCTTACAGCAATATGAGCA 900  
DB 3911 GGGAAATGGCTTGGACACATTTAGATTTTACATGAGCTTACAGCAATATGAGCA 3970  
QY 901 GTGGGCCCCCAAGCTGACGACATTCATTTCCGATCAATCAATGCTGGAGACCA 960  
DB 3971 GTGGGCCCCCAAGCTGACGACATTCATTTCCGATCAATCAATGCTGGAGACCA 4030  
QY 961 GAGGCCCTTTTCTTGATCAAGTGCATCTTTGGCACC 1001  
DB 4031 GAGGCCCTTTTCTTGATCAAGTGCATCTTTGGCACC 4071

RESULT 5  
US-09-957-641-1  
Sequence 1, Application US/09957641  
Publication No. US20020182670A1  
GENERAL INFORMATION:  
APPLICANT: Emory University  
TITLE OF INVENTION: MODIFIED FACTOR VIII  
FILE REFERENCE: 75-00  
CURRENT APPLICATION NUMBER: US/09/957,641  
CURRENT FILING DATE: 2001-09-16  
PRIOR APPLICATION NUMBER: US 60/234047  
PRIOR FILING DATE: 2000-09-19  
PRIOR APPLICATION NUMBER: US 60/234660  
PRIOR FILING DATE: 2000-09-29  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 9009  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (208)...(7203)  
US-09-957-641-1

Query Match 100.0%; Score 1001; DB 9; Length 9009;  
Best Local Similarity 100.0%; Pred. No. 3.7e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCCTTATACCGTGAGAACTAATGAACATTTGGGACTCCTGGGCCATATATAGAGC 60  
DB 5442 GCCCTTATACCGTGAGAACTAATGAACATTTGGGACTCCTGGGCCATATATAGAGC 5501  
QY 61 AGAAGTTGAAGATATATCATGTGTAAGTTCAGAAATCAGGCCCTGCTCCATTCCTT 120  
DB 5502 AGAAGTTGAAGATATATCATGTGTAAGTTCAGAAATCAGGCCCTGCTCCATTCCTT 5561  
QY 121 CTATTTCTAGCCTTTCTTTCTTTATGAGAAATCAGAGCAAGGACCAACCTGAAAAA 180  
DB 5562 CTATTTCTAGCCTTTCTTTCTTTATGAGAAATCAGAGCAAGGACCAACCTGAAAAA 5621  
QY 181 CTTTGTCAAGCCTAATGAACCAAACTTCTTTGAAAGTGCACATCATATGCGACC 240  
DB 5622 CTTTGTCAAGCCTAATGAACCAAACTTCTTTGAAAGTGCACATCATATGCGACC 5681  
QY 241 CACTTAAGATGAGTTGACTGCAAAAGCCTGGCTTATTTCTGTGATTTGACTGAAAA 300  
DB 5682 CACTTAAGATGAGTTGACTGCAAAAGCCTGGCTTATTTCTGTGATTTGACTGAAAA 5741  
QY 301 AGATGTGCACTGAGCCTGATTTGGACCCCTTCTGTCTGCCACACTTAACACACTGAACC 360  
DB 5742 AGATGTGCACTGAGCCTGATTTGGACCCCTTCTGTCTGCCACACTTAACACACTGAACC 5801  
QY 361 TGTCTATGGAGACAGTACAGTACAGAAATTTGCTGTTTTCACATCTTTTGATGA 420  
DB 5802 TGTCTATGGAGACAGTACAGTACAGAAATTTGCTGTTTTCACATCTTTTGATGA 5861  
QY 421 GACCAAAAGCTGTACTTCTACCTGAAATATGAGAAAGAACTGCAAGGCTCCCTGCAATAT 480



Db 5862 GACCAAAAGCTGCTTACTGAAATATGAAAGAAAGCAAGCTCCCTCCGCAATAT 5921  
|||  
Qy 481 CCAGATGGAAGATCCACTTTTAAAGAGAAATATGCTTCCATGCAATCAATGGCTACAT 540  
|||  
Db 5922 CCAGATGGAAGATCCACTTTTAAAGAGAAATATGCTTCCATGCAATCAATGGCTACAT 5981  
|||  
Qy 541 AATGATACACTACCTGGCTTATGATAGCTGAGATCAAGAGATTCATGCTGCT 600  
|||  
Db 5982 AATGATACACTACCTGGCTTATGATAGCTGAGATCAAGAGATTCATGCTGCT 6041  
|||  
Qy 601 CAGCATGGGCGACGAAATGAAATCATCATCTATTCATTCAGTGACATGCTGCTGCT 660  
|||  
Db 6042 CAGCATGGGCGACGAAATGAAATCATCATCTATTCATTCAGTGACATGCTGCTGCT 6101  
|||  
Qy 661 ACGAAAAAGAGAGATTAATTAATGCACTGATCAATCTCATCCAGGTGTTTTGAGAC 720  
|||  
Db 6102 ACGAAAAAGAGAGATTAATTAATGCACTGATCAATCTCATCCAGGTGTTTTGAGAC 6161  
|||  
Qy 721 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGTGGAAATGCTTATTTGGGAGCA 780  
|||  
Db 6162 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGTGGAAATGCTTATTTGGGAGCA 6221  
|||  
Qy 781 TGTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAGTGCAGACTCCCT 840  
|||  
Db 6222 TGTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAGTGCAGACTCCCT 6281  
|||  
Qy 841 GGGAAATGCTTCTGACACATTAGAGATTTAGATTTACAGCTTCAGCAATATGAGACA 900  
|||  
Db 6282 GGGAAATGCTTCTGACACATTAGAGATTTAGATTTACAGCTTCAGCAATATGAGACA 6341  
|||  
Qy 901 GTGGGCCCCAAGGCTGCGACACTTATATTCGGATCAATCAATGCTTGAGAGACCA 960  
|||  
Db 6342 GTGGGCCCCAAGGCTGCGACACTTATATTCGGATCAATCAATGCTTGAGAGACCA 6401  
|||  
Qy 961 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCACCAC 1001  
|||  
Db 6402 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCACCAC 6442  
|||  
RESULT 6  
US-10-007-968-13  
; Sequence 13, Application US/10007968  
; Patent No. US20020159977A1  
; GENERAL INFORMATION:  
; APPLICANT: Coulto, Linda B.  
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
; FILE REFERENCE: Avigen-04082  
; CURRENT APPLICATION NUMBER: US/10/007,968  
; PRIOR FILING DATE: 2001-12-13  
; PRIOR APPLICATION NUMBER: 09/740,211  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: 60/125,974  
; PRIOR FILING DATE: 1999-03-24  
; PRIOR APPLICATION NUMBER: 60/104,994  
; PRIOR FILING DATE: 1998-10-20  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: PatentIn Ver. 2.0  
; LENGTH: 11933  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-10-007-968-13

Query Match 100.0%; Score 1001; DB 9; Length 11933;  
Best Local Similarity 100.0%; Pred. No. 4.3e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GCCCTTATACCTGGAGAACTAAATGAACATTTGGGACTCTGGGCGCATATATTAAGAGC 60

Db 3000 GCCCTTATACCTGGAGAACTAAATGAACATTTGGGACTCTCTGGGCGCATATATTAAGAGC 3059  
|||  
Qy 61 AGAAGTTGAAGATATATCATGTAATCTTACAGAAATCAGGCTCTGCTTATTCCTT 120  
|||  
Db 3060 AGAAGTTGAAGATATATCATGTAATCTTACAGAAATCAGGCTCTGCTTATTCCTT 3119  
|||  
Qy 121 CTATCTAGCCCTTTCTTATGAGGAATCAGAGCAAGGAGACAACTGTAATGAAA 180  
|||  
Db 3120 CTATCTAGCCCTTTCTTATGAGGAATCAGAGCAAGGAGACAACTGTAATGAAA 3179  
|||  
Qy 181 CTTTGTAAGCCTTATGAAACCAAACTTACTTTTGGAAAGTGCACATCATATGCAACC 240  
|||  
Db 3180 CTTTGTAAGCCTTATGAAACCAAACTTACTTTTGGAAAGTGCACATCATATGCAACC 3239  
|||  
Qy 241 CACTTAAGATGAGTTTGTGCTGCAAGAGCTGGGCTTATTTCTGATGTTTACCTGGA 300  
|||  
Db 3240 CACTTAAGATGAGTTTGTGCTGCAAGAGCTGGGCTTATTTCTGATGTTTACCTGGA 3299  
|||  
Qy 301 AGATGTGACCTCAGGCTGATTTGAGCCCTTCTGCTGCGACACTTAACACAGTGAACC 360  
|||  
Db 3300 AGATGTGACCTCAGGCTGATTTGAGCCCTTCTGCTGCGACACTTAACACAGTGAACC 3359  
|||  
Qy 361 TGTCTATGGGAGAGAGTACAGTACAGAAATTTGCTGCTGTTTTTACCATCTTTGATGA 420  
|||  
Db 3360 TGTCTATGGGAGAGAGTACAGTACAGAAATTTGCTGCTGTTTTTACCATCTTTGATGA 3419  
|||  
Qy 421 GACCAAAAGCTGTAATCTTCACTGAAATATGGAAGAAAGCAAGGCTCCCTGCAATAT 480  
|||  
Db 3420 GACCAAAAGCTGTAATCTTCACTGAAATATGGAAGAAAGCAAGGCTCCCTGCAATAT 3479  
|||  
Qy 481 CCAGATGGAAGATCCACTTTTAAAGAGAAATATGCTTCCATCAATCAATGCTCATAT 540  
|||  
Db 3480 CCAGATGGAAGATCCACTTTTAAAGAGAAATATGCTTCCATCAATCAATGCTCATAT 3539  
|||  
Qy 541 AATGATACACTACCTGCTTATGATAGCTCAGAGATCAAGAGATTTGATGCTGCT 600  
|||  
Db 3540 AATGATACACTACCTGCTTATGATAGCTCAGAGATCAAGAGATTTGATGCTGCT 3599  
|||  
Qy 601 CAGCATGGGCGACGAAATGAAATCATCATCTTATTCATTCAGTGACATGCTGCTGCT 660  
|||  
Db 3600 CAGCATGGGCGACGAAATGAAATCATCATCTTATTCATTCAGTGACATGCTGCTGCT 3659  
|||  
Qy 661 ACGAAAAAGAGAGATTAATTAATGCACTGATCAATCTCATCCAGGTGTTTTGAGAC 720  
|||  
Db 3660 ACGAAAAAGAGAGATTAATTAATGCACTGATCAATCTCATCCAGGTGTTTTGAGAC 3719  
|||  
Qy 721 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGTGGAAATGCTTATTTGGGAGCA 780  
|||  
Db 3720 AGTGAATGTTACATCCAAAGCTGGAATTTGGGGGTGGAAATGCTTATTTGGGAGCA 3779  
|||  
Qy 781 TGTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAGTGCAGACTCCCT 840  
|||  
Db 3780 TGTACATGCTGGGATGAGACACTTTTCTGCTGATACAGCAATAGTGCAGACTCCCT 3839  
|||  
Qy 841 GGGAAATGCTTCTGACACATTAGAGATTTAGATTTACAGTTACAGCTTCAGGACAAATGAGACA 900  
|||  
Db 3840 GGGAAATGCTTCTGACACATTAGAGATTTAGATTTACAGTTACAGCTTCAGGACAAATGAGACA 3899  
|||  
Qy 901 GTGGGCCCCAAGGCTGCGACACTTATATTCGGATCAATCAATGCTTGAGAGACCA 960  
|||  
Db 3900 GTGGGCCCCAAGGCTGCGACACTTATATTCGGATCAATCAATGCTTGAGAGACCA 3959  
|||  
Qy 961 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCACCAC 1001  
|||  
Db 3960 GGAGCCCTTTCTTGGATCAAGGTGATCTGTTGGCACCAC 4000  
|||

RESULT 7  
US-09-740-211-13  
; Sequence 13, Application US/09740211  
; Patent No. US20010010815A1  
; GENERAL INFORMATION:

APPLICANT: Couto, Linda B.  
APPLICANT: Colosi, Peter C.  
TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII  
FILE REFERENCE: Avigen-04082  
CURRENT APPLICATION NUMBER: US/09/740,211  
CURRENT FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 09/470,618  
PRIOR FILING DATE: 1999-12-22  
PRIOR APPLICATION NUMBER: 60/125,974  
PRIOR FILING DATE: 1999-03-24  
PRIOR APPLICATION NUMBER: 60/104,994  
PRIOR FILING DATE: 1998-10-20  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 13  
LENGTH: 11933  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
US-09-740-211-13

Query Match 100.0%; Score 1001; DB 10; Length 11933;  
Best Local Similarity 100.0%; Pred. No. 4.3e-299;  
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACCTCTGGGCGCATATATAGAGC 60  
DB 3000 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACCTCTGGGCGCATATATAGAGC 3059  
OY 61 AGAAGTTGAAGAT 120  
DB 3060 AGAAGTTGAAGAT 3119  
OY 121 CTATTTAGGCTTATTTCTATAGAGATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 180  
DB 3120 CTATTTAGGCTTATTTCTATAGAGATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 3179  
OY 181 CTTTGTACAGCTTATGTAAGAAACCAAACTTCTTTGGAAGTCAACATCATATATGACAC 240  
DB 3180 CTTTGTACAGCTTATGTAAGAAACCAAACTTCTTTGGAAGTCAACATCATATATGACAC 3239  
OY 241 CACTAAGATGATGTTTACGCAAGAGCTGGCTTATTTCTGATGTTGACCTGGAGAA 300  
DB 3240 CACTAAGATGATGTTTACGCAAGAGCTGGCTTATTTCTGATGTTGACCTGGAGAA 3299  
OY 301 AGATGTCACTCAAGGCTGATGAGCCCTTCTGATGCTGCAACATCAACATCAACATCAAC 360  
DB 3300 AGATGTCACTCAAGGCTGATGAGCCCTTCTGATGCTGCAACATCAACATCAACATCAAC 3359  
OY 361 TGTCTATGAGAGCAAGTGAACATGAGAAATTTGCTGTTTTCACCATCTTTGATGA 420  
DB 3360 TGTCTATGAGAGCAAGTGAACATGAGAAATTTGCTGTTTTCACCATCTTTGATGA 3419  
OY 421 GACCAAAAGTGTACTTCTCTAATAATATGAAAGAAATGAGAGGCTCCCTGCAATAT 480  
DB 3420 GACCAAAAGTGTACTTCTCTAATAATATGAAAGAAATGAGAGGCTCCCTGCAATAT 3479  
OY 481 CCAGATGGAAGATCCCACTTTTAAAGAAATTTGCTTCATGCAATCAATGAGGCTACAT 540  
DB 3480 CCAGATGGAAGATCCCACTTTTAAAGAAATTTGCTTCATGCAATCAATGAGGCTACAT 3539  
OY 541 AATGATATACCTACCTGCTTAAATGATGATGATGATGATGATGATGATGATGATGATGAT 600  
DB 3540 AATGATATACCTACCTGCTTAAATGATGATGATGATGATGATGATGATGATGATGATGAT 3599  
OY 601 CAGCATGAGGAGCAATGAAACATCTCATTTATCTTATCTTATCTTATCTTATCTTATCTT 660  
DB 3600 CAGCATGAGGAGCAATGAAACATCTCATTTATCTTATCTTATCTTATCTTATCTTATCTT 3659  
OY 661 ACGAATAAAGAGAGAT 720  
DB 661 ACGAATAAAGAGAGAT 720

DB 3660 ACGAATAAAGAGAGAT 3719  
OY 721 AGTGAATATGTTTCCATCCAAAGCTGGAATTTGGGAGGATGCTTATTTGGGAGCA 780  
DB 3720 AGTGAATATGTTTCCATCCAAAGCTGGAATTTGGGAGGATGCTTATTTGGGAGCA 3779  
OY 781 TCTACATGCTGGGATGAGCACTTTTCTGTTGATGATGATGATGATGATGATGATGATGAT 840  
DB 3780 TCTACATGCTGGGATGAGCACTTTTCTGTTGATGATGATGATGATGATGATGATGATGAT 3839  
OY 841 GGAATGCTTCTGAGACATTTAGATTTTACATTTACAGCTTACAGCAATATGAGCA 900  
DB 3840 GGAATGCTTCTGAGACATTTAGATTTTACATTTTACAGCTTACAGCAATATGAGCA 3899  
OY 901 GTGGGCCCAAGCTGGAGCACTTATATTCGGATCAATCAATGCTGGAGAGCA 960  
DB 3900 GTGGGCCCAAGCTGGAGCACTTATATTCGGATCAATCAATGCTGGAGAGCA 3959  
OY 961 GGAGCCCTTTTCTGATCAAGGTGATGCTTTGGACACCA 1001  
DB 3960 GGAGCCCTTTTCTGATCAAGGTGATGCTTTGGACACCA 4000

RESULT 8  
US-10-095-718-3  
Sequence 3, Application US/10095718  
Patent No. US20020131956A1

GENERAL INFORMATION:  
APPLICANT: Walsh, Christopher  
APPLICANT: Chao, Hengjun  
APPLICANT: Burstein, Haim  
APPLICANT: Lynch, Carmel  
APPLICANT: Stepan, Tony  
APPLICANT: Munson, Keith  
TITLE OF INVENTION: Adeno-Associated Virus Vectors Encoding Factor VIII and  
FILE REFERENCE: Methods of Using the Same  
CURRENT FILING DATE: 2002-03-12  
PRIOR APPLICATION NUMBER: 09/689,430  
PRIOR FILING DATE: 2001-08-22  
PRIOR APPLICATION NUMBER: 60/158,780  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 3  
LENGTH: 7914  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: rAAV vector with canine B-domain deleted factor  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (435)...(4730)  
US-10-095-718-3

Query Match 85.6%; Score 857; DB 12; Length 7914;  
Best Local Similarity 91.0%; Pred. No. 1.3e-254;  
Matches 911; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

OY 1 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACCTCTGGGCGCATATATAGAGC 60  
DB 2966 GCCCTTATACCGTGGAGAACTAAATGAACATTTGGGACCTCTGGGCGCATATATAGAGC 3025  
OY 61 AGAAGTTGAAGAT 120  
DB 3026 AGAAGTTGAAGAT 3085  
OY 121 CTATTTAGGCTTATTTCTATAGAGATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 180  
DB 3086 CTATTTAGGCTTATTTCTATAGAGATGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG 3145



Db 5809 TGTAGATGCCAATGGAGCTAGACCTGTATCTGATTCACAGATCAAGCCTTCA 5868  
Qy 887 GGACAAATATGACAGTGGGCCCCCAAGCTGGCAGACTTCTATATTCGATCAATCAT 946  
Db 5869 GAGTTCTGGGTTACTGGGAGCCCGATTTAGCAAGATTAACATGGTGGATCTTATAT 5928  
Qy 947 GCGTGGAG 954  
Db 5929 GCTTGGAG 5936

## RESULT 10

US-09-970-966-175  
; Sequence 175, Application US/09970966  
; Patent No. US20020173638A1  
; GENERAL INFORMATION:  
; APPLICANT: Stolk, John A.  
; APPLICANT: Molesh, David Alan  
; APPLICANT: Filing, Steven P.  
; APPLICANT: Xu, Jiangchun  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
; FILE REFERENCE: 210121.484C6  
; CURRENT APPLICATION NUMBER: US/09/970,966  
; CURRENT FILING DATE: 2001-10-02  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 175  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-970-966-175

Query Match 13.5%; Score 135; DB 9; Length 3321;  
Best Local Similarity 50.7%; Pred. No. 2.3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGAACTTTGGGACTCCTGGGCGCATATATPAGACGAGAGTTGAGATATATCAT 81  
Db 2403 AGAAGAACATCTGGGAATTTAGGTCCACAACTTCATGAGATGGAGACAAAGTCAA 2462  
Qy 82 GGTAACTTTCAGAAATCAGGCTCTGCTGCTATTCCTTATCTTACGCTTATTTCTTA 141  
Db 2463 AATTAATCTTTAAACATGGCCACAGGCCCCCTACTCATATCAATGCCCC----- 2509  
Qy 142 TGAGGAAGATCAGAGGAGGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 201  
Db 2510 -----ATGGGGTACAAACAGAGAGTTCTACAGTTACTCCAAACTTACAGAGTGAAC 2561  
Qy 202 CAAACTTACTTTGGAAAGTGCACATCTATGAGCAGCCACTPAAAGAGAGTTGACTG 261  
Db 2562 TCTCACTTACGTATGAAATATCCAGAAAGATCTGAGCTGGAACAGAGATTCCTGTTG 2621  
Qy 262 CAAAGCTGGGCTTATTTCTGATGTGACCTGGAAGAAAGATGTCAGCTGAGGCTGAT 321  
Db 2622 TATTTCAATGGGCTTATTTCACTGTGATCAAGTTAAGAGCCTTACAGTGGATTAAT 2681  
Qy 322 TGAGACCCCTTCTGCTGTCACACTAACAACCTGCTCATGAGGAGACAGTGCAC 381  
Db 2682 TGGCCCCCTGATGTTTGTGGAAGACCTTACTTGAAGATTAATCCAGAAAGAG--- 2739  
Qy 382 AGTACAGGATTTGCTCTGTTTTCACATCTTTGATGAGACCAAAAGCTGGTACTTCA 441  
Db 2740 -----CTGGAAATTTGCCCTCTGTTTCTAGTTTGTGATGAGAAATCTTGTGACTTGA 2795  
Qy 442 TGAATATATGAAAGAAAGTGCAGGCTCCCTGCAATATCCAGATGAGATGCCCTT 501  
Db 2796 TGACAAATCAAAACATCTCTGATCAACCCCGAAGAGTAAACAAAGATGAGAGAAAT 2855  
Qy 502 TAAAGGAATATGCTTCCATCAATCAATGAGCTCATATGATGATACACTGCTGCTT 561  
Db 2856 CATAGAAAGCAATAAATGATGATCTATTAATGGAACAATGTTTGGAAACCTTCAAGGCT 2915

Qy 562 AGTAATGCTCAGGATCAAGATTCAGATGATCTGCTCAGATGGCAGCAATGAAA 621  
Db 2916 CACAAATCAGCTGGGAGATCAATCACTGCTATCTGATGGAGATGGCAATGAAATAGA 2975  
Qy 622 CATCACTTCTATTCATTTGAGTGGAGACATGTTGCTACTGTACGAAAAAAGAGATATA 681  
Db 2976 CTTCACACACTGTACATTTTCACGCGCATAGCTTCAATCAAGACACAGGAGTTATAG 3035  
Qy 682 AATGGACGTGACAAATCTGATCCAGTGTGTTTGAGACAGTGGAAATGTTACATCCA 741  
Db 3036 TTCTGATGCTTTTGACATTTTCCCTGGAACATACCAACCTTGAAGAAATTTTCAAGAAC 3095  
Qy 742 AGCTGGAATTTGGGCGGAGGAGATGCTTATTTGCGAGCATATCAATGCTGGATGAGC 801  
Db 3096 ACCTGGAATTTGGTACTCTCAGCTGATGACCCGACCAATTCATGCTGGAATGGAAC 3155  
Qy 802 ACTTT 806  
Db 3156 CACTT 3160

## RESULT 11

US-09-825-294-175  
; Sequence 175, Application US/09825294  
; Patent No. US2002004491A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Stolk, John A.  
; APPLICANT: Filing, Steven P.  
; APPLICANT: Algate, Paul A.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
; FILE REFERENCE: 210121.484C5  
; CURRENT APPLICATION NUMBER: US/09/825,294  
; CURRENT FILING DATE: 2001-04-03  
; NUMBER OF SEQ ID NOS: 215  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 175  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-825-294-175

Query Match 13.5%; Score 135; DB 10; Length 3321;  
Best Local Similarity 50.7%; Pred. No. 2.3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGAACTTTGGGACTCCTGGGCGCATATATPAGACGAGAGTTGAGATATATCAT 81  
Db 2403 AGAAGAACATCTGGGAATTTAGGTCCACAACTTCATGAGATGGAGACAAAGTCAA 2462  
Qy 82 GGTAACTTTCAGAAATCAGGCTCTGCTGCTATTCCTTATCTTACGCTTATTTCTTA 141  
Db 2463 AATTAATCTTTAAACATGGCCACAGGCCCCCTACTCATATACATGCCCC----- 2509  
Qy 142 TGAGGAAGATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 201  
Db 2510 -----ATGGGGTACAAACAGAGAGTTCTACAGTTACTCCAAACTTACAGAGTGAAC 2561  
Qy 202 CAAACTTACTTTGGAAAGTGCACATCTATGAGCAGCCACTPAAAGATGAGTTGACTG 261  
Db 2562 TCTCACTTACGTATGAAATATCCAGAAAGATCTGAGCTGGAACAGAGATTCCTGTTG 2621  
Qy 262 CAAAGCTGGGCTTATTTCTGATGTGACCTGGAAGAAAGATGTCAGCTGAGGCTGAT 321  
Db 2622 TATTTCAATGGGCTTATTTCACTGTGATCAAGTTAAGAGCCTTACAGTGGATTAAT 2681  
Qy 322 TGAGACCCCTTCTGCTGTCACACTAACAACCTGCTCATGAGGAGACAGTGCAC 381  
Db 2682 TGGCCCCCTGATGTTTGTGGAAGACCTTACTTGAAGATTAATCCAGAAAGAG--- 2739  
Qy 382 AGTACAGGATTTGCTCTGTTTTCACATCTTTGATGAGACCAAAAGCTGGTACTTCA 441

Db 2740 ----CTGGAATTTGCCCTTCTGTTTCTAGTTTGTGAGAAATGATCTTGTACTAGA 2795  
Qy 442 TGAATAATATGAAAGAACTGACGGGCTCCCTGCAATATCCAGATGGAATCCACTTT 501  
Db 2796 TGACAAACATCAAAACATATCTGATCACCACCGAATAATAAAGATGATGAGAAAT 2855  
Qy 502 TAAAGAAATTTATGCTTCCATGCAATGATGCTACATTAATGATACCTACCTGCTT 561  
Db 2856 CATGAAAGCAATAAATGATGCTATTAATGAGAAATGTTGGAACCTACAAAGGCT 2915  
Qy 562 AGTATGCTGTCAGATCAAGATTCAGATGATGCTGTCAGATGAGGACATGAA 621  
Db 2916 CACAAATGACCTGGAGATGAAGTCACTGATCTGATGAGGAATGGCAATGAATGA 2975  
Qy 622 CATCATTTCTATTTCTATTCAGTGCATGCTGCTACCTAGCAAAAAGAGATATA 681  
Db 2976 CTTACACACTGTACATTTTTCAGCGCCATAGCTTCCATACAAAGCAGAGGAGTTATAG 3035  
Qy 682 AATGGCACTGTAACAATCTATCCAGTGTGTTTGAACAGTGAATGTACATCCAA 741  
Db 3036 TTCTGATGCTTTGACATTTTCCCTGGAACATACCAACCCTAGAATGTTTCCAAAGAC 3095  
Qy 742 AGCTGAATTTGGCGGGTGGAGATGCTTATTTGGGAGATCTACATGCTGGAGATGAGCAC 801  
Db 3096 ACCTGGAATTTGGTTACTCCATGCTGATGACCGACCAATCTGCTGGAATGGAAC 3155  
Qy 802 ACTTT 806  
Db 3156 CACTT 3160

## RESULT 12

US-09-880-107-2253  
; Sequence 2253, Application US/09880107  
; Patent No. US20020142981A1  
; GENERAL INFORMATION:  
; APPLICANT: Horne, Darci T.  
; APPLICANT: Vockley, Joseph G.  
; APPLICANT: Scherf, Uwe  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
; FILE REFERENCE: 44921-5028-WO  
; CURRENT APPLICATION NUMBER: US/09/880,107  
; CURRENT FILING DATE: 2001-06-14  
; PRIOR APPLICATION NUMBER: US 60/211,379  
; PRIOR FILING DATE: 2000-06-14  
; PRIOR APPLICATION NUMBER: US 60/237,054  
; PRIOR FILING DATE: 2000-10-02  
; NUMBER OF SEQ ID NOS: 3950  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 2253  
; LENGTH: 3321  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M13699  
US-09-880-107-2253

Query Match 13.5%, Score 135, DB 10: Length 3321;  
Best Local Similarity 50.7%, Pred. No. 2,3e-31;  
Matches 398; Conservative 0; Mismatches 360; Indels 27; Gaps 2;

Qy 22 AATGACATTTGGAGCTCGGGCCATATATAGACAGAGTGAAGTAATATATAT 81  
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Qy 82 GGTAACTTTCAGAAATCAGGCTCTGCTGCTATTCCTTCTTCTAGCCCTTATTTCTTA 141  
Db 2463 AATTAATCTTAAACATGGCCACAAAGCCCTACTCATATACATGCGC----- 2509  
Qy 142 TTAGGAGATCTAGAGGCAAGGACAACTTAGAAAAACTTTGTCAAGCCTTAATGAAC 201  
Db 2510 -----ATGGGTTACAAAGAGAGTTCACAGTTACTCCAACTTACAGGTTGAAC 2561

Qy 202 CAAGACTTACTTTTGAAGATGCAACATCATATGCAACCCCAATGAAGATGATTGACTG 261  
Db 2562 TCTCCTAGTATGGAATAATCCAGAAAGATCTGGAGCTGGAACAGAGATTTCTGCTTG 2621  
Qy 262 CAAGCCTGGGCTTATTTCTGATGTTGACCTGGAAGAAAGATGCTACAGCCCTGAT 321  
Db 2622 TATTCATGAGGCTTATTTTCAACTGTGATCAAGTTAAAGACCTGCTAGTGGATTAAT 2681  
Qy 322 TGAGCCCTTCTGCTGTCGACACTAACACAGAACCCCTGCTCATGGGAGACAATGAC 381  
Db 2682 TGCCCTTATTTGTTTGTGGAAGACCTTACTTGAAGTATTAATCCAGAAAGAA-- 2739  
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Db 2740 ----CTGGAATTTGCCCTTCTGTTTCTAGTTTGTGATGAGAAATGATCTTGACTAGA 2795  
Qy 442 TGAATAATATGAAAGAAATGCAAGGCTCCCTGCAATATCCAGATGGAATGCCACTTT 501  
Db 2796 TGACAAACATCAAAACATACTGCTGATCACCCGAGAAAGTAAACAAAGATGAGGAAT 2855  
Qy 502 TAAAGAAATTTATGCTTCCATGCAATCATGCTACATATGATATGATACACTGCTT 561  
Db 2856 CATGAAAGCAATAAATGATGCTATTAATGGAAGATGTTGAAACCTTACAAAGGCT 2915  
Qy 562 AGTATGCTCAGATCAAGATTCAGATGCTATCTGCTGATGAGGAGCAATGAAAA 621  
Db 2916 CACATGACAGTGGAGATGAAGTCAACTGCTATCTGATGGAATGGCAATGAATAGA 2975  
Qy 622 CATCATTTCTATTTCTATTCAGTGCATGCTGCTACCTAGCAAAAAGAGATATA 681  
Db 2976 CTTACACACTGTACATTTTTCAGCGCCATAGCTTCCATACAAAGCAGAGGAGTTATAG 3035  
Qy 682 AATGGCACTGTAACAATCTATCCAGTGTGTTTGAACAGTGAATGTACATCCAA 741  
Db 3036 TTCTGATGCTTTGACATTTTCCCTGGAACATACCAACCCTAGAATGTTTCCAAAGAC 3095  
Qy 742 AGCTGAATTTGGCGGGTGGAGATGCTTATTTGGGAGATCTACATGCTGGAGATGAGCAC 801  
Db 3096 ACCTGGAATTTGGTTACTCCATGCTGATGACCGACCAATCTGCTGGAATGGAAC 3155  
Qy 802 ACTTT 806  
Db 3156 CACTT 3160

## RESULT 13

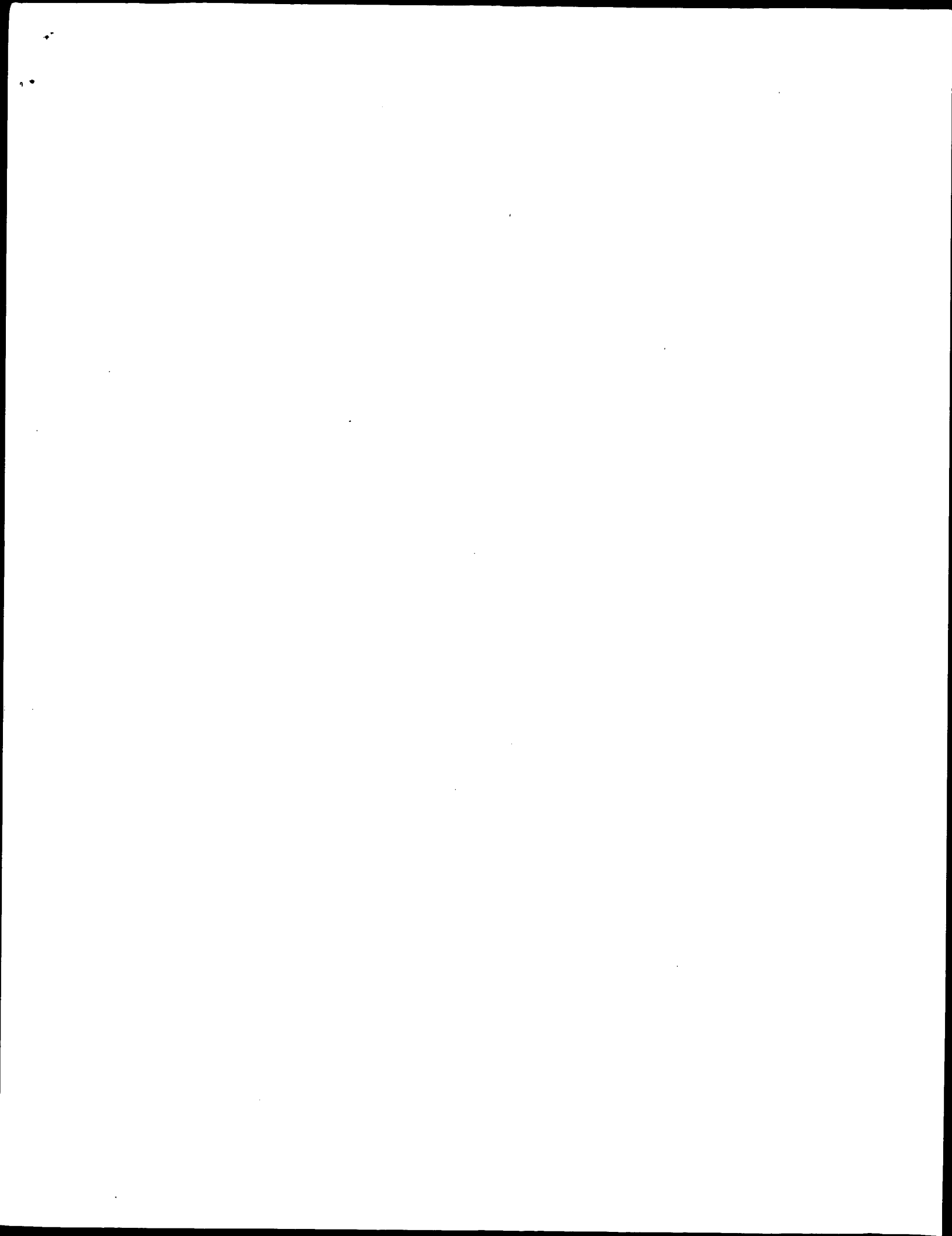
US-09-917-800A-1539  
; Sequence 1539, Application US/09917800A  
; Patent No. US20020119462A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Porter, Mark  
; APPLICANT: Johnson, Kory  
; APPLICANT: Castle, Arthur  
; APPLICANT: Elashoff, Michael  
; APPLICANT: Gene Logic, Inc.  
; TITLE OF INVENTION: Molecular Toxicology Modeling  
; FILE REFERENCE: 44921-5038-US  
; CURRENT APPLICATION NUMBER: US/09/917,800A  
; CURRENT FILING DATE: 2001-07-31  
; PRIOR APPLICATION NUMBER: US 60/222,040  
; PRIOR FILING DATE: 2000-07-31  
; PRIOR APPLICATION NUMBER: US 60/222,880  
; PRIOR FILING DATE: 2000-11-02  
; PRIOR APPLICATION NUMBER: US 60/290,029  
; PRIOR FILING DATE: 2001-05-11  
; PRIOR APPLICATION NUMBER: US 60/290,645  
; PRIOR FILING DATE: 2001-05-15  
; PRIOR APPLICATION NUMBER: US 60/292,336  
; PRIOR FILING DATE: 2001-05-22  
; PRIOR APPLICATION NUMBER: US 60/295,798  
; PRIOR FILING DATE: 2001-06-06



us-09-740-211-13\_copy\_3000\_4000.rnpb

Page 11

Search completed: January 4, 2003, 05:21:07  
Job time : 159.5 secs





GenCore version 5.1.3  
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 04:58:21 ; Search time 47.5 Seconds  
(without alignments)  
6462.809 Million cell updates/sec

Title: US-09-740-211-13\_COPY\_8700\_9700

Perfect score: 1001  
Sequence: 1 aagctccacattatatta.....gttttcgcatagatgacg 1001

Scoring table:  
IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents, NA:\*

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2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1001	100.0	11933	4	US-09-470-618-13
2	1001	100.0	11933	4	US-09-364-862-13
3	926.6	92.6	46819	4	US-09-453-702B-72
4	575.2	57.5	61663	4	US-09-453-702B-62
5	309	30.9	309	3	US-09-023-221A-6
6	309	30.9	309	4	US-09-282-352A-6
7	298.8	29.9	760	3	US-09-023-221A-1
8	298.8	29.9	760	4	US-09-282-352A-1
9	256.4	25.6	378	3	US-09-023-221A-21
10	256.4	25.6	378	4	US-09-282-352A-21
11	252	25.2	309	3	US-09-023-221A-22
12	252	25.2	309	4	US-09-282-352A-22
13	224.2	22.4	309	3	US-09-023-221A-5
14	224.2	22.4	309	4	US-09-282-352A-5
15	59.2	5.9	38584	4	US-09-453-702B-50
16	55.8	5.6	26173	4	US-09-453-702B-69
17	55.8	5.6	48908	4	US-09-453-702B-137
18	55.2	5.5	45175	4	US-09-453-702B-116
19	54	5.4	38155	4	US-09-453-702B-79
20	39	3.9	9048	3	US-08-973-273-4
21	37.2	3.7	595	4	US-09-385-982-25
22	35.6	3.6	22306	4	US-09-453-702B-251
23	35.6	3.6	34063	4	US-09-453-702B-96
24	35.4	3.5	49785	4	US-09-453-702B-60
25	35	3.5	1727	4	US-09-071-035-295
26	35	3.5	1839	4	US-09-071-035-293
27	34.4	3.4	112132	4	US-09-741-150-3

C	28	34.2	3.4	16950	4	US-09-453-702B-166	Sequence 166, App
	29	34	3.4	3680	4	US-09-647-390-15	Sequence 15, Appl
	30	33.6	3.4	1611	6	US-09-872-6	Patent No. 5213972
	31	33.6	3.4	1817	2	US-08-743-637B-1	Sequence 1, Appl
	32	33.6	3.4	1817	3	US-08-526-840B-1	Sequence 1, Appl
	33	33.4	3.3	1391	2	US-08-950-168-2	Sequence 2, Appl
	34	33.4	3.3	1391	4	US-09-365-705-2	Sequence 2, Appl
	35	33.4	3.3	1404	4	US-09-257-179-34	Sequence 34, Appl
	36	33.4	3.3	9711	4	US-08-961-527-167	Sequence 167, App
	37	33	3.3	566	4	US-09-328-117-452	Sequence 452, App
	38	33	3.3	2400	4	US-08-963-901-1	Sequence 1, Appl
	39	33	3.3	2400	4	US-08-963-901-5	Sequence 5, Appl
	40	33	3.3	2796	1	US-08-261-677-8	Sequence 8, Appl
	41	33	3.3	2796	1	US-08-384-556A-4	Sequence 4, Appl
	42	33	3.3	2796	2	US-08-331-355A-8	Sequence 8, Appl
	43	33	3.3	2796	3	US-08-777-147-5	Sequence 5, Appl
	44	33	3.3	2796	3	US-09-157-077-8	Sequence 8, Appl
	45	33	3.3	2796	5	PCT-US94-12364-8	Sequence 8, Appl

## ALIGNMENTS

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RESULT 1
US-09-470-618-13
: Sequence 13, Application US/09470618
: Patent No. 6200560
: GENERAL INFORMATION:
: APPLICANT: Coulo, Linda B.
: APPLICANT: Colosi, Peter C.
: TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
: TITLE OF INVENTION: by Target Cells
: FILE REFERENCE: Avigen-04082
: CURRENT APPLICATION NUMBER: US/09/470, 618
: CURRENT FILING DATE: 1999-12-22
: EARLIER APPLICATION NUMBER: 09/364, 862
: EARLIER FILING DATE: 1999-07-30
: EARLIER APPLICATION NUMBER: 60/125, 974
: EARLIER FILING DATE: 1999-03-24
: EARLIER APPLICATION NUMBER: 60/104, 994
: EARLIER FILING DATE: 1998-10-20
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 11933
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-470-618-13
Query Match          100.0%   Score 1001: DB 4: Length 11933:
Best Local Similarity 100.0%   Pred. No. 2.1e+283:
Matches 1001: Conservative 0: Mismatches 0: Indels 0: Gaps 0:
1 AACGTCACATTTATTTACTATCTAGCCACAGATAATATTCACATCGTTAGAAAC 60
DB 8700 AACGTCACATTTATTTACTATCTAGCCACAGATAATATTCACATCGTTAGAAAC 8759
61 GATACACCGGTGTTATTAAGAGCTTAAAGGTTGTAATGTTAAATTCGAAGAAC 120
DB 8760 GATACACCGGTGTTATTAAGAGCTTAAAGGTTGTAATGTTAAATTCGAAGAAC 8819
121 ACGCATCTTATGAAGAGCTGATGATGTTGAATCAAGAAATTCATTACAGCA 180
DB 8820 ACGCATCTTATGAAGAGCTGATGATGTTGAATCAAGAAATTCATTACAGCA 8879
181 TACAGAGAAATCTGTAAGACAGAGTTTCGATGGTTACAAATATCCAGACAT 240
DB 8880 TACAGAGAAATCTGTAAGACAGAGTTTCGATGGTTACAAATATCCAGACAT 8939
241 AAAAGATATTTACTATACCTTTGATTAATTCATTAGTACGAGGATTCAGACACT 300

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Db	8940	AAAAGATTTTACATACCTTGGATTAATCATCTACTTTACAGAGACCTTCAAGAACT	89393
Qy	301	ACACAAATCTTCCACCGCTAAATCATACGCTCCGGTTTCTCCGTCTAGCACCGGGCG	360
Db	9000	ACACAAATCTTCCACCGCTAAATCATACGCTCCGGTTTCTCCGTCTAGCACCGGGCG	9059
Qy	361	TTGGCATTAATGCAATPAGGTGAGCGGTAACCCGTGTGCATCGTTTAATATATCCG	420
Db	9060	TTGGCATTAATGCAATPAGGTGAGCGGTAACCCGTGTGCATCGTTTAATATATCCG	9119
Qy	421	GACACTCCCGAGAGAGTCCCGCTAGGGCTGTGACATAGTAAATCCGGATTAACA	480
Db	9120	GACACTCCCGAGAGAGTCCCGCTAGGGCTGTGACATAGTAAATCCGGATTAACA	9179
Qy	481	TGACGATTCATCGCACTGCATACATATTAATAATTTAACAATATGAATTTCACTCA	540
Db	9180	TGACGATTCATCGCACTGCATACATATTAATAATTTAACAATATGAATTTCACTCA	9239
Qy	541	TTGTTTAGGGTTTGTTAATTTCTACACATACGATTTGCGAAGTTCAAAAAGCATGG	600
Db	9240	TTGTTTAGGGTTTGTTAATTTCTACACATACGATTTGCGAAGTTCAAAAAGCATGG	9299
Qy	601	GAATTAACACCATGAAAAAATGCTACGCTCGCGCGCGCGCTTAATTAAGATG	660
Db	9300	GAATTAACACCATGAAAAAATGCTACGCTCGCGCGCGCGCTTAATTAAGATG	9359
Qy	661	TGCTCAACAGACGTTTACTGTTCAAAAACAACCGGAGCAGTAGGACCAAAAGAACAT	720
Db	9360	TGCTCAACAGACGTTTACTGTTCAAAAACAACCGGAGCAGTAGGACCAAAAGAACAT	9419
Qy	721	CACCATCATTTTCTGTTTCTGTGAATTTGGGCAAGAAAACTGTGATGCAAGCCAAAT	780
Db	9420	CACCATCATTTTCTGTTTCTGTGAATTTGGGCAAGAAAACTGTGATGCAAGCCAAAT	9479
Qy	781	TTTGGGGGGGCAAAAAATGTTTAAACAGAAACCAAGCAAAATCTGTAATGGATT	840
Db	9480	TTTGGGGGGGCAAAAAATGTTTAAACAGAAACCAAGCAAAATCTGTAATGGATT	9539
Qy	841	GCTCGGTTTATTACTTAAAGCAATTAATGCTCCGCTGGGAAGCGCTGTATTCCTACA	900
Db	9540	GCTCGGTTTATTACTTAAAGCAATTAATGCTCCGCTGGGAAGCGCTGTATTCCTACA	9599
Qy	901	ATAATTCATGAATTTGCCCATGGCGATATGGCAACTCATCTGCACCTGCTCAATTAAT	960
Db	9600	ATAATTCATGAATTTGCCCATGGCGATATGGCAACTCATCTGCACCTGCTCAATTAAT	9659
Qy	961	ACTTCGCGTCCCTCCAGTGTGTTTTGGATGATGATAGC 1001	
Db	9660	ACTTCGCGTCCCTCCAGTGTGTTTTGGATGATGATAGC 9700	

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1 RESULT 2
2 US-09-364-862-13
3 ; Sequence 13, Application US/09364862
4 ; Patent No. 6221349
5 ; GENERAL INFORMATION:
6 ; APPLICANT: Couto, Linda B.
7 ; APPLICANT: Colosi, Peter C.
8 ; TITLE OF INVENTION: ADENO-ASSOCIATED VECTORS FOR EXPRESSION OF FACTOR VIII
9 ; TITLE OF INVENTION: BY TARGET
10 ; TITLE OF INVENTION: CELLS
11 ; FILE REFERENCE: AVIGEN-03743
12 ; CURRENT APPLICATION NUMBER: US/09/364, 862
13 ; CURRENT FILING DATE: 1999-07-30
14 ; EARLIER APPLICATION NUMBER: 60/125,974
15 ; EARLIER FILING DATE: 1999-03-24
16 ; EARLIER APPLICATION NUMBER: 60/104,994
17 ; EARLIER FILING DATE: 1998-10-20
18 ; NUMBER OF SEQ ID NOS: 14
19 ; SOFTWARE: PatentIn Ver. 2.0
20 ; SEQ ID NO 13
21 ;
22 ; LENGTH: 11933
23 ;
24 ; TYPE: DNA

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; ORGANISM: Artificial Sequence
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; FEATURE:
;   OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-364-862-13

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Matches 1001; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

OY	1	AACGCTCACAATTAATTACTAATCTAGCCCAACAAATAATPTGCATCGGTGAAGAAC	60
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OY	181	TACAGGGAAATCTTGCTAAAGCAGSGAGTTTTCCGATGGGTTCAAAATATCATGACAT	240
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Db	8940	AAAAGATTAATCTATACCTTGATTAATTCATTAATTAATTAATCTAGAGCAATTCAGAACAT	899
OY	301	ACACAATCTTCCAACGCTAAATATATAGTCCGGTTTCTCCGTGTACAGACCGGGCG	360
Db	9000	ACACAATCTTCCAACGCTAAATATATAGTCCGGTTTCTCCGTGTACAGACCGGGCG	905
OY	361	TTGGCATATGCAATPACGTAGCGTAGCGCTAAACCTGTGTCAATCGTTTTAATTAATCCCG	420
Db	9060	TTGGCATATGCAATPACGTAGCGTAGCGCTAAACCTGTGTCAATCGTTTTAATTAATCCCG	911
OY	421	GACACTCCCGCAGAGAGTTCCCCTCAGGGCTGTGGACATTAATTAATCCGGGAATACAA	480
Db	9120	GACACTCCCGCAGAGAGTTCCCCTCAGGGCTGTGGACATTAATTAATCCGGGAATACAA	917
OY	481	TGAGATTCATCGCACTGACATPACATTAATAATATTAACAATATGAATTTCAACTCA	540
Db	9180	TGAGATTCATCGCACTGACATPACATTAATAATAATATTAACAATATGAATTTCAACTCA	923
OY	541	TTGTTTAGGGTTGTGTTAATTTCTACATACATGATTCGCGAACTTCAAAAAGCATGG	600
Db	9240	TTGTTTAGGGTTGTGTTAATTTCTACATACATGATTCGCGAACTTCAAAAAGCATGG	929
OY	601	GAATPACACCATGAAAAAAAAATGCTACTCGCTACGTGGCCCTGCTTATTACAGAGATG	660
Db	9300	GAATPACACCATGAAAAAAAAATGCTACTCGCTACGTGGCCCTGCTTATTACAGAGATG	935
OY	661	TGCTCAACAGACGTTTACTGTTCAAAAACAACCGGACAGATRGCACAAAGGAACCAT	720
Db	9360	TGCTCAACAGACGTTTACTGTTCAAAAACAACCGGACAGATRGCACAAAGGAACCAT	943
OY	721	CACCATCATCTTCTCGTTCTGTAATTTGGGACAGAGAAGAAACGTGCGATGCGCCAAAT	780
Db	9420	CACCATCATCTTCTCGTTCTGTAATTTGGGACAGAGAAGAAACGTGCGATGCGCCAAAT	947
OY	781	TTGTGGCGGGCAGAAAAATGTGTTAAAAACAGAAACCCAGCAAACTTCGTAATGAGATT	840
Db	9480	TTGTGGCGGGCAGAAAAATGTGTTAAAAACAGAAACCCAGCAAACTTCGTAATGAGATT	953
OY	841	GCTGGGTTTATTAATCTTAGGCAATTAATACCTCGCTGGAAGCGCGTGTATGCTCACA	900
Db	9540	GCTGGGTTTATTAATCTTAGGCAATTAATACCTCGCTGGAAGCGCGTGTATGCTCACA	959
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Db	9600	ATAATTCATAGAGTGGCCATGGCGAATGGGCACTCATATGCAACGTCCATTAATAT	965

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Db 9660 ACTTCTGGTCTTCCTCAGTTGTTTTCATAGTATGATCAGC 9700

## RESULT 3

US-09-453-702B-72/c

Sequence 72, Application US/09453702B

Patent No. 6365723

## GENERAL INFORMATION:

APPLICANT: Blatner, Frederick R.

Burland, Valerie

Perna, Nicole T.

Plunkett, Guy

Welch, Rod

TITLE OF INVENTION: No. 6365723el Sequences of E. coli 0157

NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:

ADDRESS: Quarles &amp; Brady

STREET: 1 South Plunkney Street

CITY: Madison

STATE: WI

COUNTRY: US

ZIP: 53701-2113

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44Mb storage

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 8.0

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/453,702B

FILING DATE: 03-Dec-1999

CLASSIFICATION: &lt;Unknown&gt;

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/110,955

FILING DATE: 04-DEC-1998

## ATTORNEY/AGENT INFORMATION:

NAME: Seay, Nicholas J.

REGISTRATION NUMBER: 27386

REFERENCE/DOCKET NUMBER: 960296, 95017

## TELECOMMUNICATION INFORMATION:

TELEPHONE: (608) 251-5000

TELEFAX: (608) 251-9166

INFORMATION FOR SEQ ID NO: 72:

SEQUENCE CHARACTERISTICS:

LENGTH: 46819

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

SEQUENCE DESCRIPTION: SEQ ID NO: 72:

US-09-453-702B-72

Query Match 92.6%; Score 926.6; DB 4; Length 46819;  
Best Local Similarity 97.2%; Pred. No. 2.5e-261;  
Matches 975; Conservative 0; Mismatches 24; Indels 4; Gaps 3;

QY 1 AACGTCACATTAATTTACTATCTAGCCACAGATAATATTCACATGCTGTAGAAAC 60  
|||  
Db 10601 AATGTCACATTAATTTACTATCTAGCCACAGATAATATTCACATGCTGTAGAAAC 10542

QY 61 GATAACACCGTGTAAATAAGACTTAAAGAGTTGTAATCTTAATTCACAGAAC 120  
|||||  
Db 10541 GATAACACGCTGTAAATAAGACTTAAAGAGTTGTAATCTTAATTCACAGAAC 10482

QY 121 ACCGATCTTAATAGAAACGCTATGATAGCTTGAATCAAGAAATTCACATTTACGCA 180  
|||||  
Db 10481 ACCGATCTTAATAGAAACGCTATGATAGCTTGAATCAAGAAATTCACATTTACGCA 10422

QY 181 TACAGGAAATCTGCTAAGAGAGAGTTCCGATGCTTACAAATATCATGCAACAT 240  
|||||  
Db 10421 TACAGGAAATCTGCTAAGAGAGAGTTCCGATGCTTACAAATATCATGCAACAT 10362

QY 241 AAAGATATTACTATACCTTGGATTAATTCATTACTATTACTAGAGACATTCAGAACACT 300  
|||||  
Db 10361 AAAGATATTACTATACCTTGGATTAATTCATTACTATTACTAGAGACATTCAGAACACT 10302

QY 301 ACACAAATCTTCCAGCTTAATCATAGCTCCGGTTCTTCGGTGTACAGACCAGGGGCG 360  
|||||  
Db 10301 ACACAAATCTTCCAGCTTAATCATAGCTCCGGTTCTTCGGTGTACAGACCAGGGGCG 10242

QY 361 TTGGCATTAATGCAATAGCTAGAGCGGCTAAACCTGTGTGATGCTT-TTAATTAATCC 419  
|||||  
Db 10241 TTGGCATTAATGCAATAGCTAGAGCGGCTAAACCTGTGTGATGCTTATTATTAATCC 10182

QY 420 GGACACTCCGCGACAGAGAG--TTCCCGCTCAGGGGCTGTGACATAGTTAATCCGGAATAC 478  
|||||  
Db 10181 GGACACTCCGCGACAGAGAGTTTCCCTGTGAGGGGCTGTGACATAGTTAATCCGGAATAC 10122

QY 479 AATGACATTCATCCGACCTGACATATCATTAATTAATTAATTAATTAATTAATTAAT 538  
|||||  
Db 10121 AATGACATTCCTTCGATCTGACATATCATTAATTAATTAATTAATTAATTAATTAAT 10062

QY 539 CATGTTAGGCTTGTGTTAATTTTACACATATGATGCTGGAACTGCAAAAGCATC 598  
|||||  
Db 10061 CATGTTAGGCTTGTGTTAATTTTACACATATGATGCTGGAACTTAAAGCATC 10002

QY 599 GGGATTAACACCATGAAATAATGCTACTGCTACTGCGTGGCCCTCTTATTACAGA 658  
|||||  
Db 10001 GGGATTAACACCATGAAATAATGCTACTGCTACTGCGTGGCCCTCTTATTACAGA 9942

QY 659 TGTCTCAACAGACGTTTACTGTTCAAAACAAACCGGACAGTAGACCAAGGAAGC 718  
|||||  
Db 9941 TGTCTCAACAGACGTTTACTGTTCAAAACAAACCGGACAGTAGACCAAGGAAGC 9882

QY 719 ATCACCACATCTTCTGTTTGAATGGGAGAGAAAGTGTGATGACGCCAA 778  
|||||  
Db 9881 ATCACCACATCTTCTGTTTGAATGGGAGAGAAAGTGTGATGACGCCAA 9822

QY 779 ATTTGTGGCGGCGAGAAATGTTTAAACAGAAACCCAGCAACATTCGTAATGA 838  
|||||  
Db 9821 ATTTGTGGCGGCGAGAAATGTTTAAACAGAAACCCAGCAACATTCGTAATGA 9762

QY 839 TTGCTCGGTTTATTACTTTAGGATTTAATCTCCGCTGGAAGCGCTGTATGCTCA 898  
|||||  
Db 9761 TTGCTCGGTTTATTACTTTAGGATTTAATCTCCGCTGGAAGCGCTGTATGCTCA 9702

QY 899 CAATAATTCATGAGTGGCCATGCGATATGAGCACTATCTGACATGCTCATTAAT 958  
|||||  
Db 9701 CAATAATTCATGAGTGGCCATGCGATATGAGCACTATCTGACATGCTCATTAAT 9644

QY 959 ATACTTGTGGGTTCTTCAGTTGTTTTCATATGATGATCAGC 1001  
|||||  
Db 9643 ATACTTGTGGGTTCTTCAGTTGTTTTCATATGATGATCAGC 9601

## RESULT 4

US-09-453-702B-62/c

Sequence 62, Application US/09453702B

Patent No. 6365723

## GENERAL INFORMATION:

APPLICANT: Blatner, Frederick R.

Burland, Valerie

Perna, Nicole T.

Plunkett, Guy

Welch, Rod

TITLE OF INVENTION: No. 6365723el Sequences of E. coli 0157

NUMBER OF SEQUENCES: 265

CORRESPONDENCE ADDRESS:

ADDRESS: Quarles &amp; Brady

STREET: 1 South Plunkney Street

CITY: Madison

STATE: WI

COUNTRY: US

ZIP: 53701-2113

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 Inch, 1.44MB storage  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 8.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/453,702B  
FILING DATE: 03-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/110,955  
FILING DATE: 04-DEC-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Seay, Nicholas J.  
REGISTRATION NUMBER: 27386  
REFERENCE/DOCKET NUMBER: 960296,95017  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (608) 251-5000  
TELEFAX: (608) 251-9166  
INFORMATION FOR SEQ ID NO: 62:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 61663  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
SEQUENCE DESCRIPTION: SEQ ID NO: 62:  
US-09-453-702B-62

Query Match 57.5%; Score 575.2; DB 4; Length 61663;  
Best Local Similarity 98.2%; Pred. No. 2,7e-158;

Matches 603; Conservative 0; Mismatches 8; Indels 3; Gaps 2;

QY 389 AAACCCGTGTGCATGCTGTTTATTTATTTCCCGACACTCCCGCAGAGAAGTCCCGC 447  
DB 28589 AAACCCGTGTGCATGCTGTTTATTTATTTCCCGCAGACTCCCGCAGAGAAGTCCCGC 28530  
QY 448 AGGCGTGTGCATGCTGTTTATTTCCGGAGATGACATGAGATTCATCCGACCTGACATACAT 507  
DB 28529 AGGCGTGTGCATGCTGTTTATTTCCGGAGATGACATGAGATTCATCCGACCTGACATACAT 28470  
QY 508 TAATAATATTATTAATATTAATTTCAATCTGTTTGGGTTTGTATTTTCTAC 567  
DB 28469 TAATAATATTATTAATATTAATTTCAATCTGTTTGGGTTTGTATTTTCTAC 28410  
QY 568 ACATGATCTGTGCAGACTTCAAAAAGCATGGGAAATACACCATGAAAAAATGCTACT 627  
DB 28409 ACATGATCTGTGCAGACTTCAAAAAGCATGGGAAATACACCATGAAAAAATGCTACT 28350  
QY 628 CGCTACTGCGTGGCCCTGCTTATTAACAGATGCTCAACAGAGCTTTACTGTTCAAA 687  
DB 28349 CGCTACTGCGTGGCCCTGCTTATTAACAGATGCTCAACAGAGCTTTACTGTTCAAA 28290  
QY 688 CAACCGCGCAGCATGACACCAAGAACCATCACCATCTTTCTGTTCTGGAAT 747  
DB 28289 CAACCGCGCAGCATGACACCAAGAACCATCACCATCTTTCTGTTCTGGAAT 28230  
QY 748 TGGCAGAAAAAACTGTCATGAGCAAAATTTTGGGGGCGCAGAAAAATTTGTTAA 807  
DB 28229 TGGCAGAAAAAACTGTCATGAGCAAAATTTTGGGGGCGCAGAAAAATTTGTTAA 28170  
QY 808 AACAGAAACCCAGCAAAATTTGTAATGATGCTCGGTTTATTTACTTTAGGCAATTA 867  
DB 28169 AACAGAAACCCAGCAAAATTTGTAATGATGCTCGGTTTATTTACTTTAGGCAATTA 28110  
QY 868 TACTCCGCTGGAGCGCGTGTATTTGCTACAAATATTTGATGATTTGCCATCGCAT 927  
DB 28109 TACTCCGCTGGAGCGCGGCGTGTATTTGCTACCAATATTTGATGATTTGCCAT -CGAT 28052  
QY 928 ATGGGCAACTTATGTCATGCTGCTCATTTAATATTTCTGCGGTTCTTCAGATGTTTT 987  
DB 28051 ATGGGCAACTTATGTCATGCTGCTCATTTAATATTTCTGCGGTTCTTCAGATGTTTT 27992  
QY 988 GCATAGTATGATCAGC 1001

DB 27991 GCATAGTATGATCAGC 27978

RESULT 5  
US-09-023-221A-6  
Patent 6, Application US/09023221A  
Patent No. 6087128  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GERHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,221A  
FILING DATE: 12-FEB-1998  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255,00010101  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-023-221A-6

Query Match 30.9%; Score 309; DB 3; Length 309;  
Best Local Similarity 100.0%; Pred. No. 2,5e-81;

Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 596 ATCGGGAATTAACACCATGAAAAAATGCTACGCTACGCGTGGCCCTGCTTATTACA 655  
DB 1 ATCGGGAATTAACACCATGAAAAAATGCTACGCTACGCGTGGCCCTGCTTATTACA 60  
QY 656 GGATGTGCTCAACAGAGCTTTACTGTTCAAAACCAACCGCAGCATGACACCAAGAA 715  
DB 61 GGATGTGCTCAACAGAGCTTTACTGTTCAAAACCAACCGCAGCATGACACCAAGAA 120  
QY 716 ACCATCACCATCATTTCTGTTCTGGAATTTGGCAGAAAGAACTGTCGATGCGCC 775  
DB 121 ACCATCACCATCATTTCTGTTCTGGAATTTGGCAGAAAGAACTGTCGATGCGCC 180  
QY 776 AAAATTTGGGGGCGCAGAAAAATGTTGTTAAACAGAAACCCAGCAAACTTGTAAT 835  
DB 181 AAAATTTGGGGGCGCAGAAAAATGTTTAAACAGAAACCCAGCAAACTTGTAAT 240  
QY 836 GGATGTGCTGCTTTTATTACTTTAGGCAATTTATCTCGCTGGAAGCGCGTGTATTGC 895  
DB 241 GGATGTGCTGCTTTTATTACTTTAGGCAATTTATCTCGCTGGAAGCGCGTGTATTGC 300  
QY 896 TCACATATA 904  
DB 301 TCACATATA 309

```

RESULT 6
US-09-282-352A-6
: Sequence 6, Application US/09282352A
: Patent No. 6187321
: GENERAL INFORMATION:
: APPLICANT: NOLAN, LISA K.
: APPLICANT: HORNE, SHELLEY M.
: APPLICANT: ROBINSON, MICHAEL
: TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: MUETING, RAASCH & GERHARDT P.A.
: STREET: 119 NORTH FOURTH STREET, SUITE 203
: CITY: MINNEAPOLIS
: STATE: MN
: COUNTRY: U.S.A.
: ZIP: 55401
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/282,352A
: FILING DATE: 31-MAR-1999
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 09/023,221
: FILING DATE: 12-FEB-1998
: ATTORNEY/AGENT INFORMATION:
: NAME: SANDBERG MS., VICTORIA A.
: REGISTRATION NUMBER: 41,287
: REFERENCE/DOCKET NUMBER: 255.00010102
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (612) 305-1226
: TELEFAX: (612) 305-1228
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 309 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
US-09-282-352A-6

Query Match 30.9%; Score 309; DB 4; Length 309;
Best Local Similarity 100.0%; Pred. No. 2.5e-81;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0

0Y 596 ATCGGGGAATTAACACATGAAAAAATGCTACGCTGCTACGCGCTGGCCCTGCTTATTACA 655
Db 1 ATCGGGGAATTAACACATGAAAAAATGCTACGCTGCTACGCGCTGGCCCTGCTTATTACA 60
0Y 656 GGATGTGCTCAACAGACGTTTACTGTTCAAACAAACGGACGACAGTAGACACCAAGGAA 715
Db 61 GGATGTGCTCAACAGACGTTTACTGTTCAAACAAACGGACGACAGTAGACACCAAGGAA 120
0Y 716 ACCATCACCACATCATTTCTCTGCTTCTTGGAATTGGGACAGAGAAGAAACTGTCATCAGCC 775
Db 121 ACCATCACCACATCATTTCTCTGCTTCTTGGAATTGGGACAGAGAAGAAACTGTCATCAGCC 180
0Y 776 AAAATTGTGGGGGGGCGAGAAAATGTTGTTAAACAGAAACCCACACAAACATTCGTAAT 835
Db 181 AAAATTGTGGGGGGGCGAGAAAATGTTGTTAAACAGAAACCCACACAAACATTCGTAAT 240
0Y 836 GGATTGCTCGGTTTATTACTTTAGCATTTATATCTCGCTGGAAGCCGCTGTGATTGC 895
Db 241 GGATTGCTCGGTTTATTACTTTAGCATTTATATCTCGCTGGAAGCCGCTGTGATTGC 300
0Y 896 TCACATATA 904
Db 301 TCACATATA 309

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RESULT 7
US-09-023-221A-1
: Sequence 1, Application US/09023221A
: Patent No. 6087128
: GENERAL INFORMATION:
: APPLICANT: NOLAN, LISA K.
: APPLICANT: HORNE, SHELLEY M.
: TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.
: STREET: 119 NORTH FOURTH STREET, SUITE 203
: CITY: MINNEAPOLIS
: STATE: MN
: COUNTRY: U.S.A.
: ZIP: 55401
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER TYPE: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/023,221A
: FILING DATE: 12-FEB-1998
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: SANDBERG MS., VICTORIA A.
: REGISTRATION NUMBER: 41,287
: REFERENCE/DOCKET NUMBER: 255.00010101
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (612) 305-1226
: TELEFAX: (612) 305-1228
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 760 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
US-09-023-221A-1

Query Match          29.9%; Score 298.8; DB 3; Length 760;
Best Local Similarity 83.2%; Pred. No. 3,6e-78;
Matches 381; Conservative 0; Mismatches 62; Indels 15; Gaps 3.

QY 544 TTAGGGTTTGTGTTATTTCTACACATACGATTCGCGAAGTTCAAAAAGCATCGGGAA 603
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 243 TTACTCTACGTTTATTTATTTATTCACATAGATTTCTCGGTTTTTAACA---ATGCAGA 299

QY 604 TACACCCATGAAAAAATGCTACTGCTACTGCGCTGGCCCTGCTTTATTCAGATGTGC 663
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 300 TAATTAAGATGAAAAAATGTTATTTCTGCCGCTCTGGCAATGCTTATTAACAGATGTGC 359

QY 664 TCACAGACGTTTACTGTTCAAAACAAACCGGCAGCAGTACGACCAAGGAACATCATAC 723
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 360 TCACAAACGTTTACTGTTGGAAACAAACCGACACAGTACACCAAGGAACATCATAC 419

QY 724 CCATCATTTCTTCGTTTCTGGAATTTGGCAGAAAGAACTGTGATGACGCCAAATTTTG 783
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 420 TCATCATTTCTTCGTTTCTGGGAATTTGGACAAGAGAAACTGTTGATGACGCCAAATTTTG 479

QY 784 TGGCGGGCCAGAAAAATGTTGTTAAACAGAAACCAGCAAAACATTCGTTAAATGATTTGCT 843
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 480 TGGCGGGCCAGAAAAATGTTGTTAAACAGAAACCAGCAAAACATTCGTTAAATGATTTGCT 539

QY 844 CGGTTTATTAATTAGGCATTTATATCCGCTGGAAACGGGTGTATTTGCTCCAAATA 903
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 540 CGGTTTATTAATTAGGCATTTATATCCGCTGGAAACGGGTGTATTTGCTCCAAATA 599

QY 904 ATTGCATGAGTTGCCCATTCGGGATATGCGGAACTATATCTGATGCTCATTAATATATCT 963
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```

Db 600 GTTG-----CCCATGATATGGGAGCTC-ATCTGCACGTGTCATTATATACT 647

Qy 964 TCTGGTCTCTCCAGCTGTTTTCATGATGATCAGC 1001

Db 648 TCTGGCTCCCTACAGCTGTTTTCATGATGATAGC 685

## RESULT 8

US-09-282-352A-1

; Sequence 1, Application US/09282352A

; Patent No. 6187321

; GENERAL INFORMATION:

; APPLICANT: NOLAN, LISA K.

; APPLICANT: HORNE, SHELLEY M.

; APPLICANT: ROBINSON, MICHAEL

; TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS

; NUMBER OF SEQUENCES: 22

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MUETING, RAASCH & GEBHARDT P.A.

; STREET: 119 NORTH FOURTH STREET, SUITE 203

; CITY: MINNEAPOLIS

; STATE: MN

; COUNTRY: U.S.A.

; ZIP: 55401

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentln Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/282,352A

; FILING DATE: 31-MAR-1999

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 09/023,221

; FILING DATE: 12-FEB-1998

; ATTORNEY/AGENT INFORMATION:

; NAME: SANDBERG MS., VICTORIA A.

; REGISTRATION NUMBER: 41,287

; REFERENCE/DOCKET NUMBER: 255,00010102

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (612) 305-1226

; TELEFAX: (612) 305-1228

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 760 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-09-282-352A-1

Query Match 29.9%; Score 298.8; DB 4; Length 760;

Best Local Similarity 83.2%; Pred. No. 3,6e-78;

Matches 381; Conservative 0; Mismatches 62; Indels 15; Gaps 3;

Qy 544 TTTAGGTTGTTTAAATTTCTACATAGATTGCGAATCTCAAAAAGCATCGGAA 603

Db 243 TTTAGGTTGTTTAAATTTCTACATAGATTGCGGCTTTTAAACA---ATGCAGGA 299

Qy 604 TAACACCATGAAAAAATGCTACTGCTGCTGCGCTGCGCTGCTTATTACAGATGTC 663

Db 300 TAATTAATGAAAAAATGTTATTTCTGCGCTGCGCTGCGAATGCTTATTACAGATGTC 359

Qy 664 TCAACAGCTTTACTGTTCAAAACCAACCGGACAGTACGACCAAGAAACCATGAC 723

Db 360 TCAACAAACGTTTACTGTTGAAACCAACCGGACAGTACGACCAAGAAACCATGAC 419

Qy 724 CCATCATTTCTGCTTCTGGAATTTGGGAGAAAGCTGATGACGCAAAATTTTG 783

Db 420 TTATCATTTCTGCTTCTGGAATTTGGGAGAAAGCTGATGACGCAAAATTTTG 479

Qy 784 TGCGGCGCAGAAAAATGTTTAAACAGAAACCAAGCAAAATGCTTAATGATTCGCT 843

Db 480 TGGCGGTACAGAAAAATGTTTAAACAGAAACCTACAGCAAAATCTTAATGATTCGT 539

Qy 844 CCGTTTATTTACTTTAGGATTTTACTCCGCTGGAGCGCGTGTATTGCTACATA 903

Db 540 CCGTTTATTTACTTTAGGATTTTACTCCGCTGGAGCGCGTGTATTGCTACATA 599

Qy 904 ATTGCATGATTTGCCCATCGCATATGGGCAACTCTATCTGACATGCTCATTAATATCT 963

Db 600 GTTG-----CCCATGATATGGGAGCTC-ATCTGCACGTGTCATTATATACT 647

Qy 964 TCTGGTCTCTCCAGCTGTTTTCATGATGATCAGC 1001

Db 648 TCTGGCTCCCTACAGCTGTTTTCATGATGATAGC 685

## RESULT 9

US-09-023-221A-21

; Sequence 21, Application US/09023221A

; Patent No. 6087128

; GENERAL INFORMATION:

; APPLICANT: NOLAN, LISA K.

; APPLICANT: HORNE, SHELLEY M.

; TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS

; NUMBER OF SEQUENCES: 22

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MUETING, RAASCH & GEBHARDT P.A.

; STREET: 119 NORTH FOURTH STREET, SUITE 203

; CITY: MINNEAPOLIS

; STATE: MN

; COUNTRY: U.S.A.

; ZIP: 55401

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentln Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/023,221A

; FILING DATE: 12-FEB-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: SANDBERG MS., VICTORIA A.

; REGISTRATION NUMBER: 41,287

; REFERENCE/DOCKET NUMBER: 255,00010101

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (612) 305-1226

; TELEFAX: (612) 305-1228

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 378 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

US-09-023-221A-21

Query Match 25.6%; Score 256.4; DB 3; Length 378;

Best Local Similarity 88.5%; Pred. No. 7e-66;

Matches 278; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

Qy 595 CATCGGATAATACACCATGAAAAAATGCTACTGCTACTGCTGCGCTGCTTATTAC 654

Db 33 CATCGAGATATAATGATGAAAAAATGTTATTCTGCGCTGCGCAATGCTTATTAC 92

Qy 655 AGATGCTGCTCAACGAGAGCTTACTGTTCAAAACCAACCGGACGACGATGACCAAGGA 714

Db 93 AGATGCTGCTCAACAAAGTTTACTGTTGAAACCAACCGGACGACGATGACCAAGGA 152

Qy 715 AACCATCAACCATCATTTCTGTTTCTGGAATTTGGGAGAAAGAAACTGTCATGACG 774

Db 153 AACCATCACTCATCTTCTGTTTCTGGAATTTGGGAGAAATTTGACAAGAGAAAACTGTCATGACG 212

QY 775 CAAATTTGTGGCGCCGACGAAATGTTTAAACAGAACCCAGCAACATTGCTTAA 834  
|||||  
Db 213 CAAATTTGTGGCGCCGACGAAATGTTTAAACAGAACCCAGCAACATTGCTTAA 272  
QY 835 TGGATGCTCGGTTTAACTTTAGCATTTATCTCCGCTGGAAGCGCGTGTATG 894  
|||||  
Db 273 TGGATGCTCGGTTTAACTTTAGCATTTATCTCCGCTGGAAGCGCGTGTATG 332  
QY 895 CTCACAAATTAATGTC 908  
|||||  
Db 333 CTCACAAATTAATGTC 346

## RESULT 10

US-09-282-352A-21  
; Sequence 21, Application US/09282352A  
; Patent No. 6187321  
; GENERAL INFORMATION:  
; APPLICANT: NOLAN, LISA K.  
; APPLICANT: HORNE, SHELLEY M.  
; APPLICANT: ROBINSON, MICHAEL  
; TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MEETING, RAASCH & GEBHARDT P.A.  
; STREET: 119 NORTH FOURTH STREET, SUITE 203  
; CITY: MINNEAPOLIS  
; STATE: MN  
; COUNTRY: U.S.A.  
; ZIP: 55401  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/282, 352A  
; FILING DATE: 31-MAR-1999  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 09/023,221  
; FILING DATE: 12-FEB-1998  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SANDBERG MS., VICTORIA A.  
; REGISTRATION NUMBER: 41,287  
; REFERENCE/DOCKET NUMBER: 255,00010102  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (612) 305-1226  
; TELEFAX: (612) 305-1226  
; INFORMATION FOR SEQ ID NO: 21:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 378 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-09-282-352A-21

Query Match 25.6%; Score 256.4; DB 4; Length 378;  
Best Local Similarity 88.5%; Pred. No. 7e-66; Indels 0; Gaps 0;  
Matches 278; Conservative 0; Mismatches 36;

QY 595 CATTGGGAATTAACACATGAAAAAATGCTACTGCGCTGGCCCTGCTTATAC 654  
|||||  
Db 33 CATTGGGAATTAATAGATGAAAAAATGTTATTTCTGCGCTCTGCAATGCTTTTAC 92  
QY 655 AGGATGTCTCAACAGAGCTTACTGTTCAAAACAAACCGGACAGTAGACCAAGAA 714  
|||||  
Db 93 AGGATGTCTCAACAAACGTTTACTGTTGAAACAAACCGACAGAGTAACCAAGAA 152  
QY 715 AACCATACCCATCATTTCTTCTGTTCTGGAATTTGGCAGAAAGAAACGTGATGACAG 774  
|||||  
Db 153 AACCATACCATCATTTCTTCTGTTCTGGAATTTGGCAGAAAGAAACGTGATGACAG 212

QY 775 CAAATTTGTGGCGCCGACGAAATGTTTAAACAGAACCCAGCAACATTGCTTAA 834  
|||||  
Db 213 CAAATTTGTGGCGCCGACGAAATGTTTAAACAGAACCCAGCAACATTGCTTAA 272  
QY 835 TGGATGCTCGGTTTAACTTTAGCATTTATCTCCGCTGGAAGCGCGTGTATG 894  
|||||  
Db 273 TGGATGCTCGGTTTAACTTTAGCATTTATCTCCGCTGGAAGCGCGTGTATG 332  
QY 895 CTCACAAATTAATGTC 908  
|||||  
Db 333 CTCACAAATTAATGTC 346

## RESULT 11

US-09-023-221A-22  
; Sequence 22, Application US/09023221A  
; Patent No. 6087128  
; GENERAL INFORMATION:  
; APPLICANT: NOLAN, LISA K.  
; APPLICANT: HORNE, SHELLEY M.  
; TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
; NUMBER OF SEQUENCES: 22  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MEETING, RAASCH & GEBHARDT P.A.  
; STREET: 119 NORTH FOURTH STREET, SUITE 203  
; CITY: MINNEAPOLIS  
; STATE: MN  
; COUNTRY: U.S.A.  
; ZIP: 55401  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,221A  
; FILING DATE: 12-FEB-1998  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SANDBERG MS., VICTORIA A.  
; REGISTRATION NUMBER: 41,287  
; REFERENCE/DOCKET NUMBER: 255,00010101  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (612) 305-1226  
; TELEFAX: (612) 305-1226  
; INFORMATION FOR SEQ ID NO: 22:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 309 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-09-023-221A-22

Query Match 25.2%; Score 252; DB 3; Length 309;  
Best Local Similarity 88.6%; Pred. No. 1.2e-64;  
Matches 273; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACTGCGCTGGCCCTGCTTATTACA 655  
|||||  
Db 1 ATCGGGAATTAATAGATGAAAAAATGTTATTTCTGCGCTCTGCAATGCTTTTACA 60  
QY 656 GATGTGTCTCAACAGAGCTTACTGTTCAAAACAAACCGGACAGTAGACCAAGAA 715  
|||||  
Db 61 GATGTGTCTCAACAAACGTTTACTGTTGAAACAAACCGACAGAGTAACCAAGAA 120  
QY 716 ACCATACCCATCATTTCTTCTGTTCTGGAATTTGGCAGAAAGAAACGTGATGACAGC 775  
|||||  
Db 121 ACCATACCATCATTTCTTCTGTTCTGGAATTTGGCAGAAAGAAACGTGATGACAGC 180  
QY 776 AATTTTGTGGGCGGCAAAATGTTTAAACAGAACCCAGCAACATTGCTTAAT 835  
|||||

Db 181 AAAATTGTCGGCGTCAGAAAATGTTGTTAAACAGAAACAGCAACATTCGTAAAT 240  
QY 836 GGATTCGTCGGTTTATCTTACTTATAGCATTTATCTCGCTGGAAGCGCGTGTATTC 895  
Db 241 GGATTCGTCGGTTTATCTTACTTATAGCATTTATCTCGCTGGAAGCGCGTGTATTC 300  
QY 896 TCACATA 903  
Db 301 TCACATA 308

## RESULT 12

US-09-282-352A-22  
Sequence 22, Application US/09282352A  
Patent No. 6187321  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
APPLICANT: ROBINSON, MICHAEL  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/282,352A  
FILING DATE: 31-MAR-1999  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 09/023,221  
FILING DATE: 12-FEB-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255.00010102  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 22:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-282-352A-22

Query Match 25.2%; Score 252; DB 4; Length 309;  
Best Local Similarity 88.6%; Pred. No. 1.2e-64;  
Matches 273; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACGCTACTGCGCTGCGCTGCTTATTACA 655  
Db 1 ATCGAGGATTAATAAGATGAAAAAATGTTATTTCTGCGCTGCTGCAATGCTATTACA 60  
QY 656 GGATTCGTCAGACAGCGTTTACTGTTCAAAACAGCGGAGAGTACGACCAAGAA 715  
Db 61 GGATTCGTCAGACAAACGTTTACTGTTGAAACAGACGAGTAAACCAAGAA 120  
QY 716 ACCATCACCACATTTCTTCTGTAATGGGAGAGAAACAGTGCATGACGCC 775  
Db 121 ACCATCAGTATCTTCTTCTGTAATGGGAGAGTAAAGAAACAGTGCATGACGCC 180  
QY 776 AAAATTGTCGGCGTCAGAAAATGTTGTTAAACAGAAACCAACCAATTCGTAAAT 835

Db 181 AAAATTGTCGGCGTCAGAAAATGTTGTTAAACAGAAACAGCAACATTCGTAAAT 240  
QY 836 GGATTCGTCGGTTTATCTTACTTATAGCATTTATCTCGCTGGAAGCGCGTGTATTC 895  
Db 241 GGATTCGTCGGTTTATCTTACTTATAGCATTTATCTCGCTGGAAGCGCGTGTATTC 300  
QY 896 TCACATA 903  
Db 301 TCACATA 308

## RESULT 13

US-09-023-221A-5  
Sequence 5, Application US/09023221A  
Patent No. 6087128  
GENERAL INFORMATION:  
APPLICANT: NOLAN, LISA K.  
APPLICANT: HORNE, SHELLEY M.  
TITLE OF INVENTION: DNA ENCODING AN AVIAN E. COLI ISS  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MUEITING, RAASCH & GEBHARDT P.A.  
STREET: 119 NORTH FOURTH STREET, SUITE 203  
CITY: MINNEAPOLIS  
STATE: MN  
COUNTRY: U.S.A.  
ZIP: 55401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,221A  
FILING DATE: 12-FEB-1998  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: SANDBERG MS., VICTORIA A.  
REGISTRATION NUMBER: 41,287  
REFERENCE/DOCKET NUMBER: 255.00010101  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (612) 305-1226  
TELEFAX: (612) 305-1228  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
US-09-023-221A-5

Query Match 22.4%; Score 224.2; DB 3; Length 309;  
Best Local Similarity 87.1%; Pred. No. 1.7e-56;  
Matches 269; Conservative 0; Mismatches 38; Indels 2; Gaps 2;

QY 596 ATCGGGAATTAACACATGAAAAAATGCTACGCTACTGCGCTGCGCTGCTTATTACA 655  
Db 1 ATCGAGGATTAATAAGATGAAAAAATGTTATTTCTGCGCTGCTGCAATGCTATTACA 60  
QY 656 GGATTCGTCAGACAGCGTTTACTGTTCAAAACAGCGGAGAGTACGACCAAGAA 715  
Db 61 GGATTCGTCAGACAAACGTTTACTGTTGAAACAGACGAGTAAACCAAGAA 120  
QY 716 ACCATCACCACATTTCTTCTGTAATGGGAGAGAAACAGTGCATGACGCC 775  
Db 121 ACCATCAGTATCTTCTTCTGTAATGGGAGAGTAAAGAAACAGTGCATGACGCC 179  
QY 776 AAAATTGTCGGCGTCAGAAAATGTTGTTAAACAGAAACCAACCAATTCGTAAAT 834  
Db 180 AAAATTGTCGGCGTCAGAAAATGTTGTTAAACAGAAACCAACCAATTCGTAAAT 239





Thu Jan 9 10:11:53 2003

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Db 8820 AGCATCTTATAGAAAGCTCTATGATAGTTGAAATCAAGAAATACATTTACGAA 8879
Qy 181 TACAGGAAATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 240
Db 8880 TACAGGAAATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 8939
Qy 241 AAAAGATATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 300
Db 8940 AAAAGATATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 8999
Qy 301 ACACAATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 360
Db 9000 ACACAATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 9059
Qy 361 TTGGCATTAATGCAATAGCTGTACGCTAAACCTGTGTGCAATCGTTTAAATATCCG 420
Db 9060 TTGGCATTAATGCAATAGCTGTACGCTAAACCTGTGTGCAATCGTTTAAATATCCG 9119
Qy 421 GACACTCCCGCAGAGAAAGTTCCCGTCAGGCTGTGAGACATAGTTAATCCGGAAATCA 480
Db 9120 GACACTCCCGCAGAGAAAGTTCCCGTCAGGCTGTGAGACATAGTTAATCCGGAAATCA 9179
Qy 481 TGACATTCATGCACTGACATACATTAATTAATTAATTAATTAATTAATTAATTAAT 540
Db 9180 TGACATTCATGCACTGACATACATTAATTAATTAATTAATTAATTAATTAATTAAT 9239
Qy 541 TTGTTTAGGGTTTAAATTTTCTACACATAGATTTGCGAATGCAATGCAATGCAATG 600
Db 9240 TTGTTTAGGGTTTAAATTTTCTACACATAGATTTGCGAATGCAATGCAATGCAATG 9299
Qy 601 GAATAACACATGAAAAAATGCTACTGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db 9300 GAATAACACATGAAAAAATGCTACTGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 9359
Qy 661 TGCTAACAGAGATTTACTGTTCAAAACCAACCGCAGAGATGAGCAACCAACCAAT 720
Db 9360 TGCTAACAGAGATTTACTGTTCAAAACCAACCGCAGAGATGAGCAACCAACCAAT 9419
Qy 721 CACCATATCTTCTGCTGTTCTGGAATGGCAGAGAAACTGTGATGACGCAAAAT 780
Db 9420 CACCATATCTTCTGCTGTTCTGGAATGGCAGAGAAACTGTGATGACGCAAAAT 9479
Qy 781 TTGTGGCGCGCAGAAAAATGTTTAAACAGAAACCCAGAAACATTCGTAATGAT 840
Db 9480 TTGTGGCGCGCAGAAAAATGTTTAAACAGAAACCCAGAAACATTCGTAATGAT 9539
Qy 841 GCTGCTTTTATCTTAAAGCATTAATCTCCGCTGGAAGCGGTGTGATTTGCTACA 900
Db 9540 GCTGCTTTTATCTTAAAGCATTAATCTCCGCTGGAAGCGGTGTGATTTGCTACA 9599
Qy 901 ATAAATGATGATGTTGGCATTCGCAATGGAACCTATCTGACGCTCATTAATAT 960
Db 9600 ATAAATGATGATGTTGGCATTCGCAATGGAACCTATCTGACGCTCATTAATAT 9659
Qy 961 ACTTCTGGGTTCTTCCAGTTGTTTTCATAGTATGATCAGC 1001
Db 9660 ACTTCTGGGTTCTTCCAGTTGTTTTCATAGTATGATCAGC 9700

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RESULT 2
US-09-740-211-13
; Sequence 13, Application US/09740211
; Patent No. US20010010815A1
; GENERAL INFORMATION:
; APPLICANT: Couto, Linda B.
; APPLICANT: Colosi, Peter C.
; TITLE OF INVENTION: Adeno-Associated Vectors for Expression of Factor VIII
; FILE REFERENCE: by Target Cells
; FILE REFERENCE: AVigen-04082
; CURRENT APPLICATION NUMBER: US/09/740,211
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: 09/470,618
; PRIOR FILING DATE: 1999-12-22

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; PRIOR APPLICATION NUMBER: 60/125,974
; PRIOR FILING DATE: 1999-03-24
; PRIOR APPLICATION NUMBER: 60/104,994
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 13
; LENGTH: 11933
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-740-211-13

Query Match      100.0%; Score 1001; DB 10; Length 11933;
Best Local Similarity 100.0%; Pred. No. 4,6e-251;
Matches 1001; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AACGTCACATTTATTTACTATCTAGCCACAGATTAATTTACATGCTGTTAGAAAC 60
Db 8700 AACGTCACATTTATTTACTATCTAGCCACAGATTAATTTACATGCTGTTAGAAAC 8759
Qy 61 GATAACACCGTGTAAATTAAGACCTTAAAGGTTGTAATGTTAAATTTCTCAGAAAC 120
Db 8760 GATAACACCGTGTAAATTAAGACCTTAAAGGTTGTAATGTTAAATTTCTCAGAAAC 8819
Qy 121 ACGCATCTTATAGAAAGCTGCTATGATAGTTGAAATCAAGAGAAATACATTTACGAA 180
Db 8820 ACGCATCTTATAGAAAGCTGCTATGATAGTTGAAATCAAGAGAAATACATTTACGAA 8879
Qy 181 TACAGGAAATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 240
Db 8880 TACAGGAAATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 8939
Qy 241 AAAAGATATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 300
Db 8940 AAAAGATATATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 8999
Qy 301 ACACAATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 360
Db 9000 ACACAATCTTGTCTAAGCAGAGATTTCGATGGTTCAATATTCATGAAAT 9059
Qy 361 TTGGCATTAATGCAATAGCTGTACGCTAAACCTGTGTGCAATCGTTTAAATATCCG 420
Db 9060 TTGGCATTAATGCAATAGCTGTACGCTAAACCTGTGTGCAATCGTTTAAATATCCG 9119
Qy 421 GACACTCCCGCAGAGAAAGTTCCCGTCAGGCTGTGAGACATAGTTAATCCGGAAATCA 480
Db 9120 GACACTCCCGCAGAGAAAGTTCCCGTCAGGCTGTGAGACATAGTTAATCCGGAAATCA 9179
Qy 481 TGACATTCATGCACTGACATACATTAATTAATTAATTAATTAATTAATTAATTAAT 540
Db 9180 TGACATTCATGCACTGACATACATTAATTAATTAATTAATTAATTAATTAATTAAT 9239
Qy 541 TTGTTTAGGGTTTAAATTTTCTACACATAGATTTGCGAATGCAATGCAATGCAATG 600
Db 9240 TTGTTTAGGGTTTAAATTTTCTACACATAGATTTGCGAATGCAATGCAATGCAATG 9299
Qy 601 GAATAACACATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db 9300 GAATAACACATGAAAAAATGCTACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 9359
Qy 661 TGCTAACAGAGATTTACTGTTCAAAACCAACCGCAGAGATGAGCAACCAACCAAT 720
Db 9360 TGCTAACAGAGATTTACTGTTCAAAACCAACCGCAGAGATGAGCAACCAACCAAT 9419
Qy 721 CACCATATCTTCTGCTGTTCTGGAATGGCAGAGAAACTGTGATGACGCAAAAT 780
Db 9420 CACCATATCTTCTGCTGTTCTGGAATGGCAGAGAAACTGTGATGACGCAAAAT 9479
Qy 781 TTGTGGCGCGCAGAAAAATGTTTAAACAGAAACCCAGAAACATTCGTAATGAT 840
Db 9480 TTGTGGCGCGCAGAAAAATGTTTAAACAGAAACCCAGAAACATTCGTAATGAT 9539

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[illegible]

Query Match	3.6%;	Score 35.8;	DB 10;	Length 302;
Best Local Similarity	55.1%;	Pred. No. 3.3;		







